INSTALLATION/OPERATION & TECHNICAL MANUAL

FOR JACKSON MODELS:

AJ-64CE	**AJ-86CE**	**AJ-100CE**
AJ-64CS	**AJ-86CGP**	**AJ-100CGP**
	AJ-86CS	**AJ-100CS**

AND ASSOCIATED OPTION PACKAGES INCLUDING:

SIDE LOADER

D226 EXTERNAL STEAM BOOSTER

October 9, 2009
P/N 7610-002-30-93 (Revision G)

Jackson MSC LLC.
P.O. Box 1060
Barbourville, KY. 40906
(606) 523-9795
Fax: (606) 523-9196
www.jacksonmsc.com

MANUFACTURERS WARRANTY

ONE YEAR LIMITED PARTS & LABOR WARRANTY

ALL NEW JACKSON DISHWASHERS ARE WARRANTED TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIAL OR WORKMANSHIP, UNDER NORMAL USE AND OPERATION FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF PURCHASE, BUT IN NO EVENT TO EXCEED (18) EIGHTEEN MONTHS FROM THE DATE OF SHIPMENT FROM THE FACTORY.

Jackson MSC agrees under this warranty to repair or replace , at its discretion, any original part which fails under normal use due to faulty material or workmanship during the warranty period, providing the equipment has been unaltered, and has been properly installed, maintained and operated in accordance with the applicable factory instruction manual furnished with the machine and the failure is reported to the authorized service agency within the warranty period. This includes the use of factory specified genuine replacement parts, purchased directly from a Jackson authorized parts distributor or service agency. Use of generic replacement parts may create a hazard and void warranty certification.

The labor to repair or replace such failed part will be paid by Jackson MSC, within the continental United States, Hawaii and Canada, during the warranty period provided a Jackson MSC authorized service agency, or those having prior authorization from the factory, performs the service. Any repair work by persons other than a Jackson MSC authorized service agency is the sole responsibility of the customer. Labor coverage is limited to regular hourly rates, overtime premiums and emergency service charges will not be paid by Jackson MSC.

Accessory components not installed by the factory carry a (1) one year parts warranty only. Accessory components such as table limit switches, pressure regulators, pre rinse units, etc. that are shipped with the unit and installed at the site are included. Labor to repair or replace these components is not covered by Jackson MSC.

This warranty is void if failure is a direct result from shipping, handling, fire, water, accident, misuse, acts of god, attempted repair by unauthorized persons, improper installation, if serial number has been removed or altered, or if unit is used for purpose other than it was originally intended.

TRAVEL LIMITATIONS

Jackson MSC limits warranty travel time to (2) two hours and mileage to (100) one hundred miles. Jackson MSC will not pay for travel time and mileage that exceeds this, or any fees such as those for air or boat travel without prior authorization.

WARRANTY REGISTRATION CARD

The warranty registration card supplied with the machine must be returned to Jackson MSC within 30 days to validate the warranty.

REPLACEMENT PARTS WARRANTY

Jackson replacement parts are warranted for a period of 90 days from the date of installation or 180 days from the date of shipment from the factory, which ever occurs first.

PRODUCT CHANGES AND UPDATES

Jackson MSC reserves the right to make changes in design and specification of any equipment as engineering or necessity requires.

THIS IS THE ENTIRE AND ONLY WARRANTY OF JACKSON MSC. JACKSON'S LIABILITY ON ANY CLAIM OF ANY KIND, INCLUDING NEGLIGENCE, WITH RESPECT TO THE GOODS OR SERVICES COVERED HEREUNDER, SHALL IN NO CASE EXCEED THE PRICE OF THE GOODS OR SERVICES OR PART THEREOF WHICH GIVES RISE TO THE CLAIM.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING FOR FITNESS OR MERCHANTABILITY, THAT ARE NOT SET FORTH HEREIN, OR THAT EXTEND BEYOND THE DURATION HEREOF. UNDER NO CIRCUMSTANCES WILL JACKSON MSC BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, OR FOR THE DAMAGES IN THE NATURE OF PENALTIES, ARISING OUT OF THE USE OR INABILITY TO USE ANY OF ITS PRODUCTS.

ITEMS NOT COVERED

This warranty does not cover cleaning or deliming of the unit or any component such as, but not limited to, wash arms, rinse arms or strainers at anytime. Nor does it cover adjustments such as, but not limited to timer cams, thermostats or doors, beyond 30 days from the date of installation. In addition, the warranty will only cover the replacement of wear items such as curtains, drain balls, door guides or gaskets during the first 30 days after installation. Also, not covered are conditions caused by the use of incorrect (non-Commercial) grade detergents, incorrect water temperature or pressure, or hard water conditions.

CALL 1-888-800-5672 TO REGISTER THIS PRODUCT!
FAILURE TO DO SO WILL VOID THE WARRANTY!

LLAME AL 1-888-800-5672 PARA REGISTRAR ESTE PRODUCTO!
AL NO HACERLO LA GARANTIA SERA ANULADA!

S.V.P. APPELER 1-888-800-5672 POUR ENREGISTRER CE PRODUIT,
LA GARANTIE SERA ANNULEE POUR TOUT PRODUIT NON- ENREGISTREE

REVISION	REVISION DATE	MADE BY	APPLICABLE ECN	DETAILS
D	04-06-05	MAW	6999, 7193 7217, 7064 7212, 7259 6685, 7096 6964, 7006	Updated drawings for limit switch actuators. Changed AJ-86 drain plumbing copper lengths. Added rack rail stabilizer kit. Replaced heater 04540-121-76-93 with 04540-002-29-82. Updated installation instructions. Added 3 instruction sheets for limit switches. Added instruction sheet for curtains. Added AJ-86CGP & AJ-100CGP models.
E	02-02-06	MAW	7600, 7558	Added gas exhaust fan schematic, updated electric exhaust fan schematic, updated dimensions pages. Replace Drain Weldment 05700-021-68-28 with 05700-002-51-12.
F	05-02-06	MAW	7572, 7730 7634, 7743 7428, 7571 7554, 7475 7463, 7462 7367, 7789	Pawl bar for AJ-86 R-L unit with a side loader option. Updated scrap basket drawings. Vent cowl assembly for a hooded side loader. Service instructions for replacing wash/rinse motors. Added prison pawl bar packages. Thermostat replacement kits, updated drain quench assembly, replaced wash thermostat 05930-121-67-72 with 05930-003-13-65. Heater replacment instructions. Updated steam booster schematic. Rinse fill motor assembly. Wash, rinse & PSI decals. Update door assembly numbers. Drain quench kit.
PG. 116	04-19-07	MAW	7898	Added 09905-003-32-20 fan load decal.
5 thru 22, 104	09-29-2007	MAW	N/A	Updated dimension pages. Removed alternate table limit switches.
G	10-09-2009	KJS	8044	Changed the part from a weldment (05700-021-67-50) to a casting (09515-003-58-12).

NOMENCLATURE FOR THE MODELS COVERED IN THIS MANUAL

AJ-64CS

AJ = AJ series of rack conveyors

64 = 64” wide machine
86 = 86” wide machine
100 = 100” wide machine

CE = Electrically heated, hot water sanitizing machine
CS = Steam heated, hot water sanitizing machine
CGP = Gas heated, hot water sanitizing machine

Model:_____

Serial No.:_____

Installation Date:_____

Service Rep. Name:_____

Phone No.:_____

Jackson MSC LLC. provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is available from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
I.	**SPECIFICATION INFORMATION**	
	Operating Characteristics	2
	Electrical Requirements	3
	D226 Steam Booster Parameters	4
	AJ-64 Electric - Left to Right	5
	AJ-64 Electric - Right to Left	6
	AJ-64 Gas - Left to Right	7
	AJ-64 Gas - Right to Left	8
	AJ-64 Steam - Left to Right	9
	AJ-64 Steam - Right to Left	10
	AJ-86 Electric - Left to Right	11
	AJ-86 Electric - Right to Left	12
	AJ-86 Gas - Left to Right	13
	AJ-86 Gas - Right to Left	14
	AJ-86 Steam - Left to Right	15
	AJ-86 Steam - Right to Left	16
	AJ-100 Electric - Left to Right	17
	AJ-100 Electric - Right to Left	18
	AJ-100 Gas - Left to Right	19
	AJ-100 Gas - Right to Left	20
	AJ-100 Steam - Left to Right	21
	AJ-100 Steam - Right to Left	22
	Side Loader (Left to Right) Dimensions	23
	Side Loader (Right to Left) Dimensions	24
	Side Loader (Installed) Dimensions	25
	D226 Steam Booster Dimensions	26
	D226 Steam Booster Plumbing Line Drawings	27
	Typical Electric and Gas Booster Dimensions	28
II.	**INSTALLATION & OPERATION INSTRUCTIONS**	
	Installation Instructions	30
	Deliming Operations	33
	Curtain Installation Diagram	34
	Side Loader Installation & Operation Instructions	35
	D226 Steam Booster Installation & Operation Instructions	36
	Gas Conveyor Hose Installation	38
	Dishmachine Operating Instructions	40
	Detergent Control	42
	Striker Plate Limit Switch Installation Instructions	43
III.	**PREVENTATIVE MAINTENANCE**	
	General Maintenance	45
	D226 Maintenance	46
	Lubrication Chart for Drive Gear	47
	Drive Motor Gear Reducer Preventative Maintenance	48
IV.	**TROUBLESHOOTING SECTION**	
	Common Problems	50
	D226 Common Problems	52

TABLE OF CONTENTS

PARTS

VI. PARTS SECTION

AJ-64 Control Box Assembly 54
AJ-86/AJ-100 Control Box Assembly 56
Motor Overload Chart 58
Heater Box Assembly 59
Heater Assembly 60
Frame Weldments/Front Dress Panels 62
Prewash Plumbing Assembly 63
Incoming Plumbing Assembly 64
Rinse Header Plumbing Assembly (CGP Models) 66
External Electric Booster Option Incoming Plumbing 67
External Electric Booster Option Outlet Plumbing 68
WPRK Plumbing Option 69
3/4” Solenoid Valve & 3/4” NPT Vacuum Breaker Repair Parts Kits 70
Steam Unit Wash Tank Coil Assembly 71
Steam Inlet Plumbing (Left to Right) 72
Steam Inlet Plumbing (Right to Left) 74
Steam Outlet Plumbing (Left to Right) 76
Steam Outlet Plumbing (Right to Left) 77
Gas Coil Assembly (CGP Models) 78
Rinse Booster Tank Assembly (CGP Models) 79
Recirculating Pump Assembly (CGP Models) 80
Hose Connections (CGP Models) 81
AJ-64 Series Drain Plumbing Assemblies 82
AJ-86 & AJ-100 Drain Plumbing Assemblies (Left to Right) 83
AJ-86 & AJ-100 Drain Plumbing Assemblies (Right to Left) 84
Drain Quench Assembly 85
Prewash & Wash Motor Assemblies 86
Prewash & Wash Pump Weldments 87
Prewash & Upper Wash Arm Assemblies 88
Lower Wash Arm Assembly 89
Upper & Lower Power Rinse Arm Assemblies 90
Final Rinse Assembly 91
Drive Assembly 92
Door Assemblies 94
Pawl Bar Roller Bracket 95
AJ-64 & AJ-86 Pawl Bar Assemblies 96
AJ-64 Rack Rail Assembly 97
Miscellaneous Parts & Weldments 98
Manifolds/Strainer Support Weldments 99
Strainers 100
Float Switch Components/Scrap Basket Assembly 101
Curtains/Tub Magnets 102
Vent Cowl Assembly/Vent Scoop Option 103
Exhaust Fan Control Option/Table Limit Switch Options 104

SIDE LOADER SECTION

Side Loader Track Assembly/Leg Replacements 105
Side LoaderPawl Bar Assemblies 106
Side Loader Vent Cowl Option 107

D226 STEAM BOOSTER SECTION

Control Box Assembly 108
Plumbing Assembly 109

Go*Box Components 111
Rinse Fill Motor Option 112

TABLE OF CONTENTS

ELECTRICAL SCHEMATICS

VII. ELECTRICAL SCHEMATICS

AJ-64CE

208-230 Volt, 60 Hz, 1 Phase Primary Side 114
208-230 Volt, 60 Hz, 1 Phase Secondary Side 115
208-230 Volt, 60 Hz, 3 Phase Primary Side 116
208-230 Volt, 60 Hz, 3 Phase Secondary Side 117
460-575-600 Volt, 60 Hz, 3 Phase Primary Side 118
460-575-600 Volt, 60 Hz, 3 Phase Secondary Side 119

AJ-64CS

208-230 Volt, 60 Hz, 1 Phase Primary Side 120
208-230 Volt, 60 Hz, 1 Phase Secondary Side 121
208-230 Volt, 60 Hz, 3 Phase Primary Side 122
208-230 Volt, 60 Hz, 3 Phase Secondary Side 123
460-575-600 Volt, 60 Hz, 3 Phase Primary Side 124
460-575-600 Volt, 60 Hz, 3 Phase Secondary Side 125

AJ-86CE & AJ-100CE

208-230 Volt, 60 Hz, 1 Phase Primary Side 126
208-230 Volt, 60 Hz, 1 Phase Secondary Side 127
208-230 Volt, 60 Hz, 3 Phase Primary Side 128
208-230 Volt, 60 Hz, 3 Phase Secondary Side 129
460-575-600 Volt, 60 Hz, 3 Phase Primary Side 130
460-575-600 Volt, 60 Hz, 3 Phase Secondary Side 131

AJ-86CS & AJ-100CS

208-230 Volt, 60 Hz, 1 Phase Primary Side 132
208-230 Volt, 60 Hz, 1 Phase Secondary Side 133
208-230 Volt, 60 Hz, 3 Phase Primary Side 134
208-230 Volt, 60 Hz, 3 Phase Secondary Side 135
460-575-600 Volt, 60 Hz, 3 Phase Primary Side 136
460-575-600 Volt, 60 Hz, 3 Phase Secondary Side 137

AJ-86CGP & AJ100CGP

208-230 Volt, 60 Hz, 1 Phase Primary Side 138
208-230 Volt, 60 Hz, 1 Phase Secondary Side 139
208-230 Volt, 60 Hz, 3 Phase Primary Side 140
208-230 Volt, 60 Hz, 3 Phase Secondary Side 141
460-575-600 Volt, 60 Hz, 3 Phase Primary Side 142
460-575-600 Volt, 60 Hz, 3 Phase Secondary Side 143

Exhaust Fan Hook-Up Schematic 144
D226 Steam Booster/Drain Quench/Conveyor Side Loader Schematics 145

VIII. MAINTENANCE & REPAIR CENTERS 146

SECTION 1:
SPECIFICATION INFORMATION

SECTION 1: SPECIFICATION INFORMATION

OPERATING CHARACTERISTICS

RACKS PER HOUR:

AJ-64-86-100CE/CS/CGP	287

DISHES OR GLASSES PER HOUR:

AJ-64-86-100CE/CS/CGP	7200

PREWASH TANK CAPACITY (GALLONS):

AJ-86CE/CS/CGP	16
AJ-100CE/CS/CGP	16

WASH TANK CAPACITY (GALLONS):

AJ-64-86-100CE/CS/CGP	15.4

POWER RINSE TANK CAPACITY (GALLONS):

AJ-86CE/CS/CGP	15.4
AJ-100CE/CS/CGP	15.4

PREWASH PUMP CAPACITY (GPM):

AJ-86CE/CS/CGP	120
AJ-100CE/CS/CGP	270

WASH PUMP CAPACITY

GALLONS PER MINUTE (ALL MODELS):	270

POWER RINSE PUMP CAPACITY

GALLONS PER MINUTE (ALL MODELS):	270

VENTING REQUIREMENTS (CFM)(100% CAP.):

INPUT END	200
OUTPUT END	400
TOTAL	600

CONVEYOR SPEED (FPM):

AJ-64-86-100CE/CS/CGP MACHINES	8.0

GALLONS PER RACK:

AJ-64-86-100CE/CS/CGP MACHINES	.77

WATER TEMPERATURES:

AJ-64-86-100CE/CS/CGP MODELS:

WASH (MINIMUM)	150°F
POWER RINSE (MINIMUM)	160°F
FINAL RINSE (MINIMUM)	180°F

FLOW PRESSURE (PSI) 20 ± 5

FLOWRATE (GPM):

AJ-64-86-100CE/CS/CGP	3.7

STEAM COIL TANK HEAT (CS MODELS ONLY):

STEAM INLET PRESSURE (PSIG)	10-20
STEAM CONNECTION NPT	3/4”
CONSUMPTION @ 15 PSIG (lbs/hr):	
AJ-64-86-100CS/CSL	100

MOTOR ELECTRICAL CHARACTERISTICS:

DRIVE MOTOR HP	1/4
WASH MOTOR HP	2
POWER RINSE MOTOR HP	2
PREWASH MOTOR HP:	
AJ-86 MODELS	1
AJ-100 MODELS	2

NOTE: Typical Electrical Circuit is based upon (1) 125% of the full amperage load of the machine and (2) typical fixed-trip circuit breaker sizes as listed in the NEC 2002 Edition. Local codes may require more stringent protection than what is displayed here. Always verify with your electrical service contractor that your circuit protection is adequate and meets all applicable national and local codes. These numbers are provided in this manual simply for reference and may change without notice at any given time.

SECTION 1: SPECIFICATION INFORMATION

ELECTRICAL REQUIREMENTS

AJ-64CE MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	139 A	175 AMP
230	1	60	128 A	175 AMP
208	3	60	82 A	110 AMP
230	3	60	76 A	100 AMP
460	3	60	38 A	50 AMP

AJ-64CS MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	19 A	25 AMP
230	1	60	19 A	25 AMP
208	3	60	13 A	20 AMP
230	3	60	13 A	20 AMP
460	3	60	7 A	15 AMP

AJ-86CE MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	145 A	200 AMP
230	1	60	134 A	175 AMP
208	3	60	86 A	110 AMP
230	3	60	79 A	100 AMP
460	3	60	39 A	50 AMP

AJ-86CGP MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	26 A	35 AMP
230	1	60	26 A	35 AMP
208	3	60	17 A	25 AMP
230	3	60	17 A	25 AMP
460	3	60	9 A	15 AMP

AJ-86CS MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	25 A	35 AMP
230	1	60	25 A	35 AMP
208	3	60	16 A	20 AMP
230	3	60	16 A	20 AMP
460	3	60	8 A	15 AMP

AJ-100CE MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	148 A	200 AMP
230	1	60	136 A	175 AMP
208	3	60	88 A	110 AMP
230	3	60	81 A	110 AMP
460	3	60	41 A	60 AMP

AJ-100CGP MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	28 A	35 AMP
230	1	60	28 A	35 AMP
208	3	60	19 A	25 AMP
230	3	60	19 A	25 AMP
460	3	60	10 A	15 AMP

AJ-100CS MODELS

VOLTS	PH	HZ	TOTAL AMPS	TYPICAL ELECTRICAL CIRCUIT
208	1	60	28 A	35 AMP
230	1	60	28 A	35 AMP
208	3	60	18 A	25 AMP
230	3	60	18 A	25 AMP
460	3	60	9 A	15 AMP

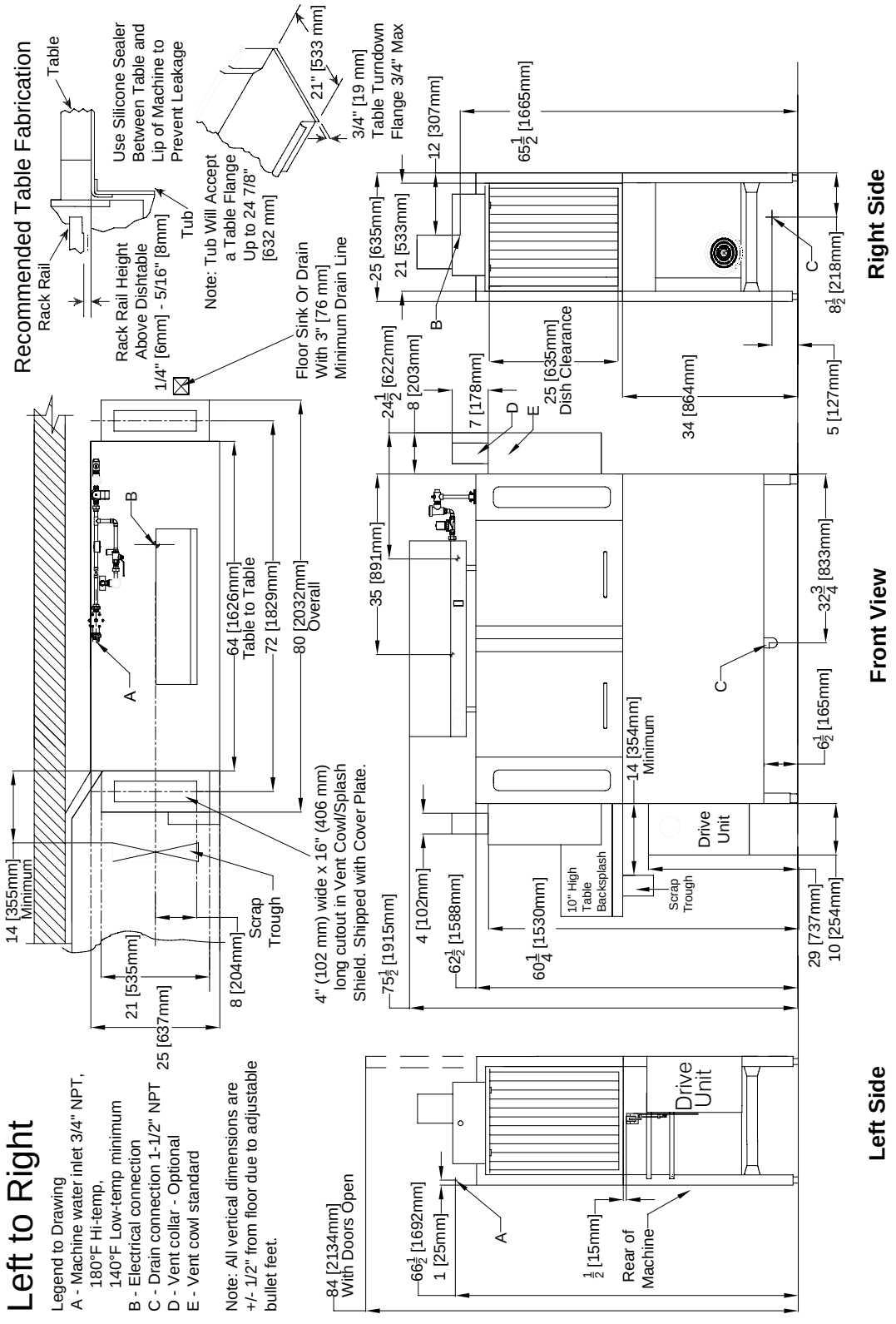
NOTE: Always refer to the machine data plate for specific electrical and water requirements. The material provided on this page is for reference only and may be subject to change without notice.

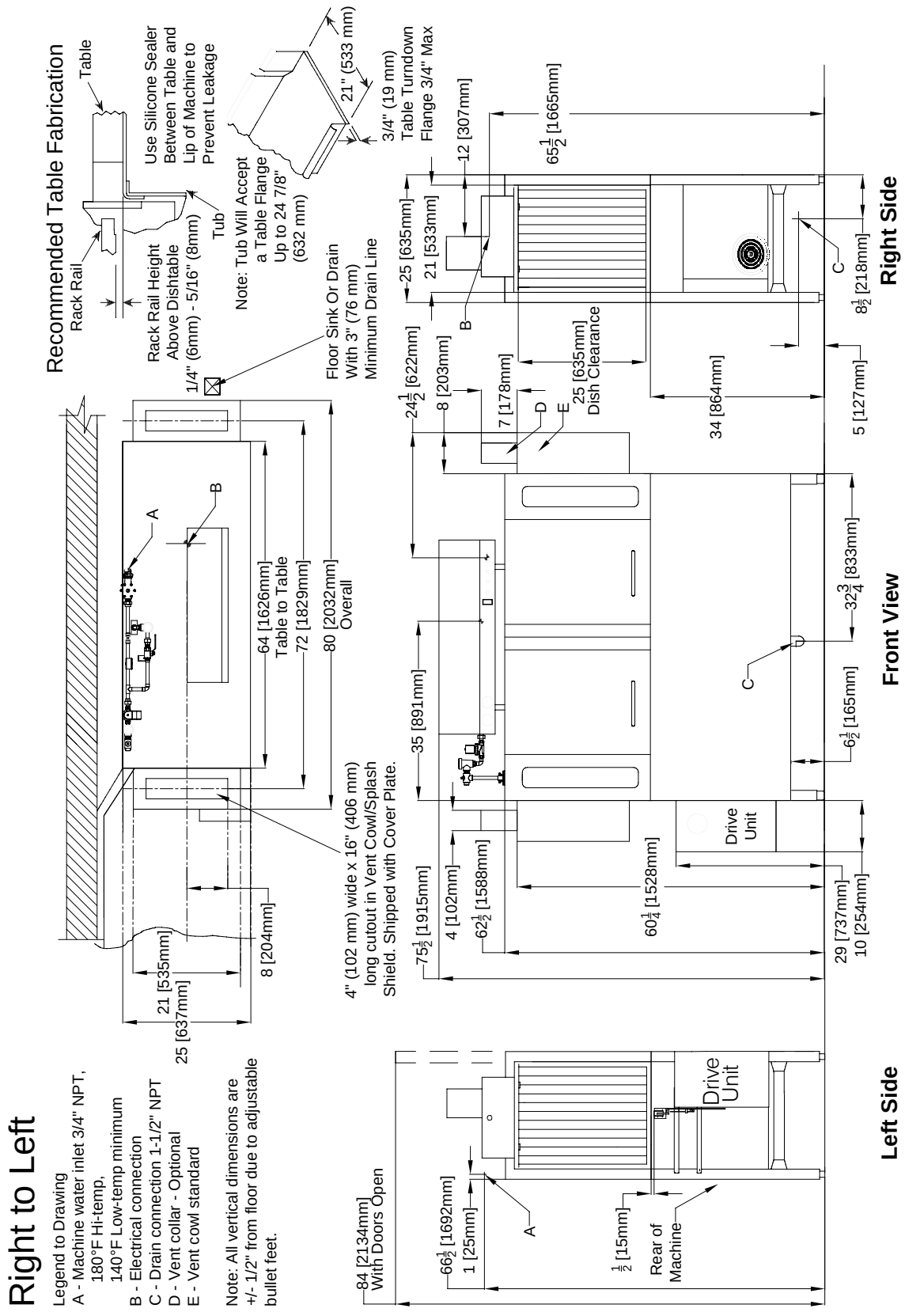
D226 STEAM BOOSTER

ELECTRICAL REQUIREMENTS:	
VOLTAGE (V)	208-230
FREQUENCY (HZ)	60
PHASE	SINGLE
WATER REQUIREMENTS:	
INCOMING WATER TEMPERATURE (MINIMUM)	110°F
FLOW PRESSURE (PSI)	20 ± 5
STEAM REQUIREMENTS:	
INCOMING STEAM PRESSURE (PSIG)	15-25
HEAT EXCHANGER SPECIFICATIONS:*	
TUBESIDE WORKING PRESSURE (PSI)	125
SHELLSIDE WORKING PRESSURE (PSI)	125
TUBESIDE HYDROSTATIC TEST PRESSURE (PSI)	250
SHELLSIDE HYDROSTATIC TEST PRESSURE (PSI)	188
MAXIMUM OPERATING TEMPERATURE	295°F
MAXIMUM SHELLSIDE STEAM PRESSURE (PSI)	125

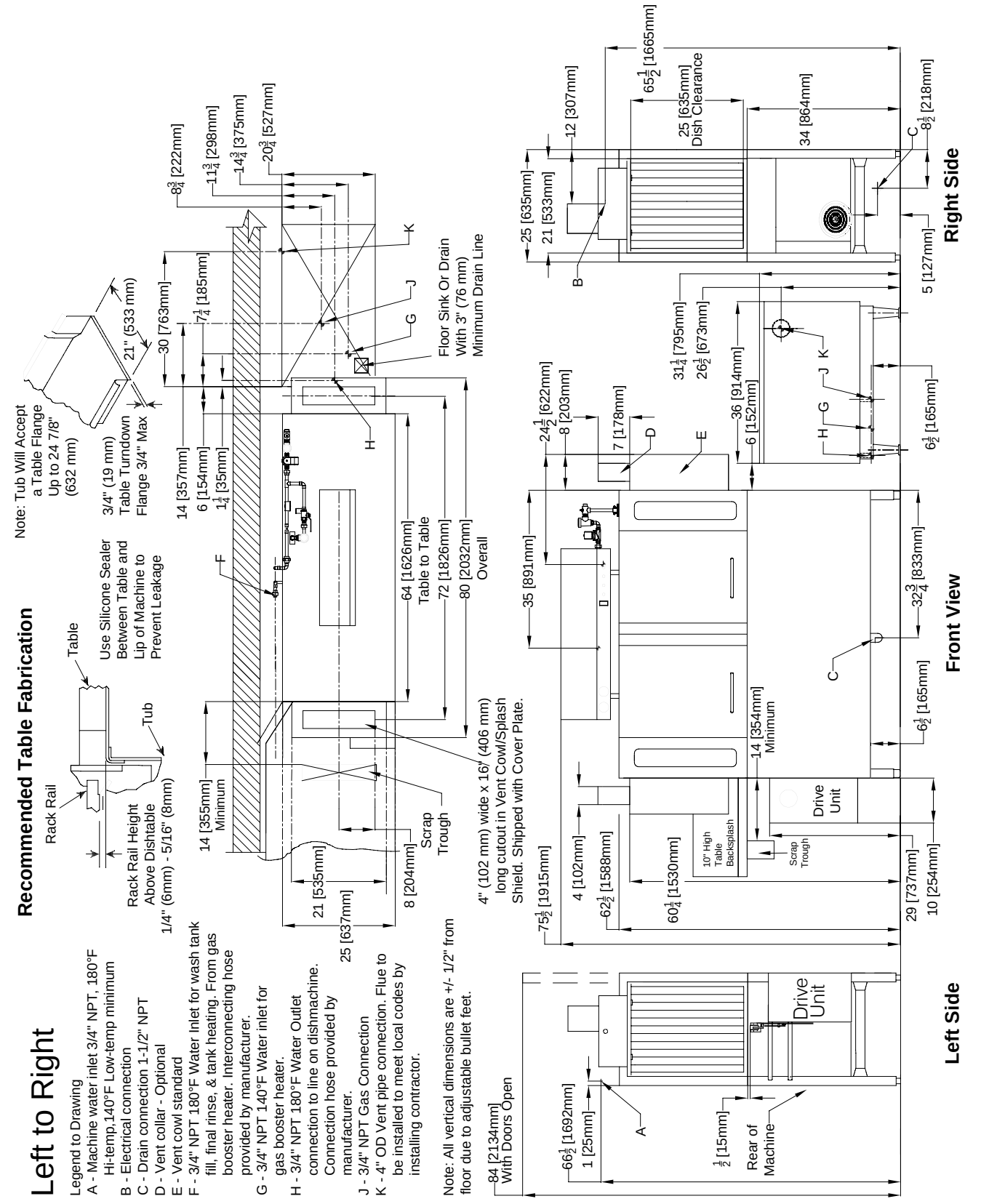
* - Indicates typical design criteria but is subject to change without notice. For more information, contact you authorized Jackson service representative.

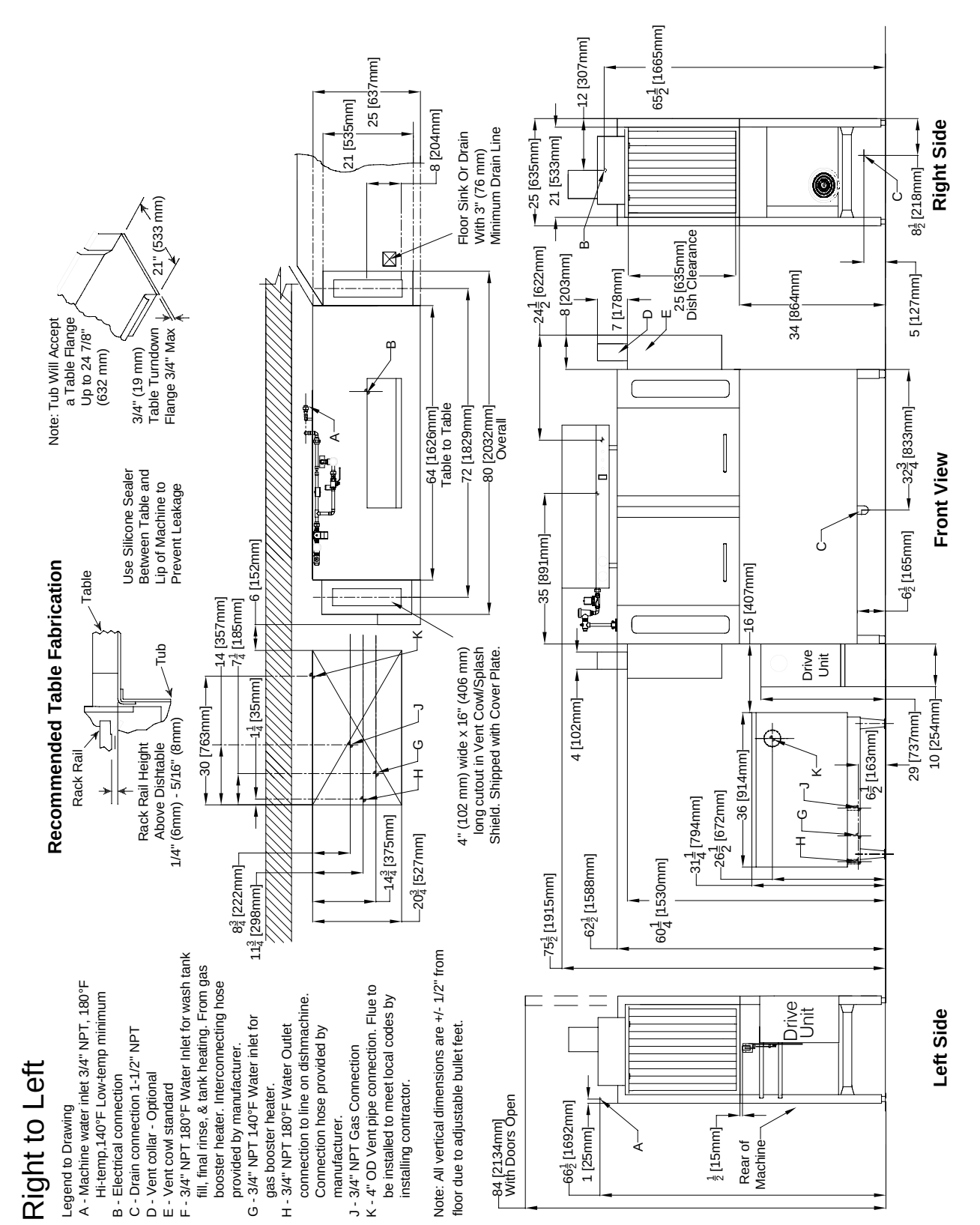
WATER OUTLET SAFETY VALVE SET PRESSURE (PSI):	125
STEAM RELIEF VALVE SET PRESSURE (PSI):	50


Left to Right
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp, 140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Table
Rack Rail
Rack Rail Height Above Dishtable
1/4" [6mm] - 5/16" [8mm]
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
21" [533 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
Floor Sink Or Drain With 3" [76 mm] Minimum Drain Line
14 [355mm] Minimum
64 [1626mm] Table to Table
72 [1829mm]
80 [2032mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Scrap Trough
8 [204mm]
21 [535mm]
25 [637mm]
Left Side
84 [2134mm] With Doors Open
66½ [1692mm]
1 [25mm]
½ [15mm]
Rear of Machine
Drive Unit
75½ [1915mm]
4 [102mm]
62½ [1588mm]
60¼ [1530mm]
10" High Table Backsplash
Scrap Trough
14 [354mm] Minimum
35 [891mm]
Front View
29 [737mm]
10 [254mm]
6½ [165mm]
32¾ [833mm]
24½ [622mm]
8 [203mm]
7 [178mm]
25 [635mm] Dish Clearance
34 [864mm]
5 [127mm]
25 [635mm]
21 [533mm]
12 [307mm]
65½ [1665mm]
8½ [218mm]
Right Side

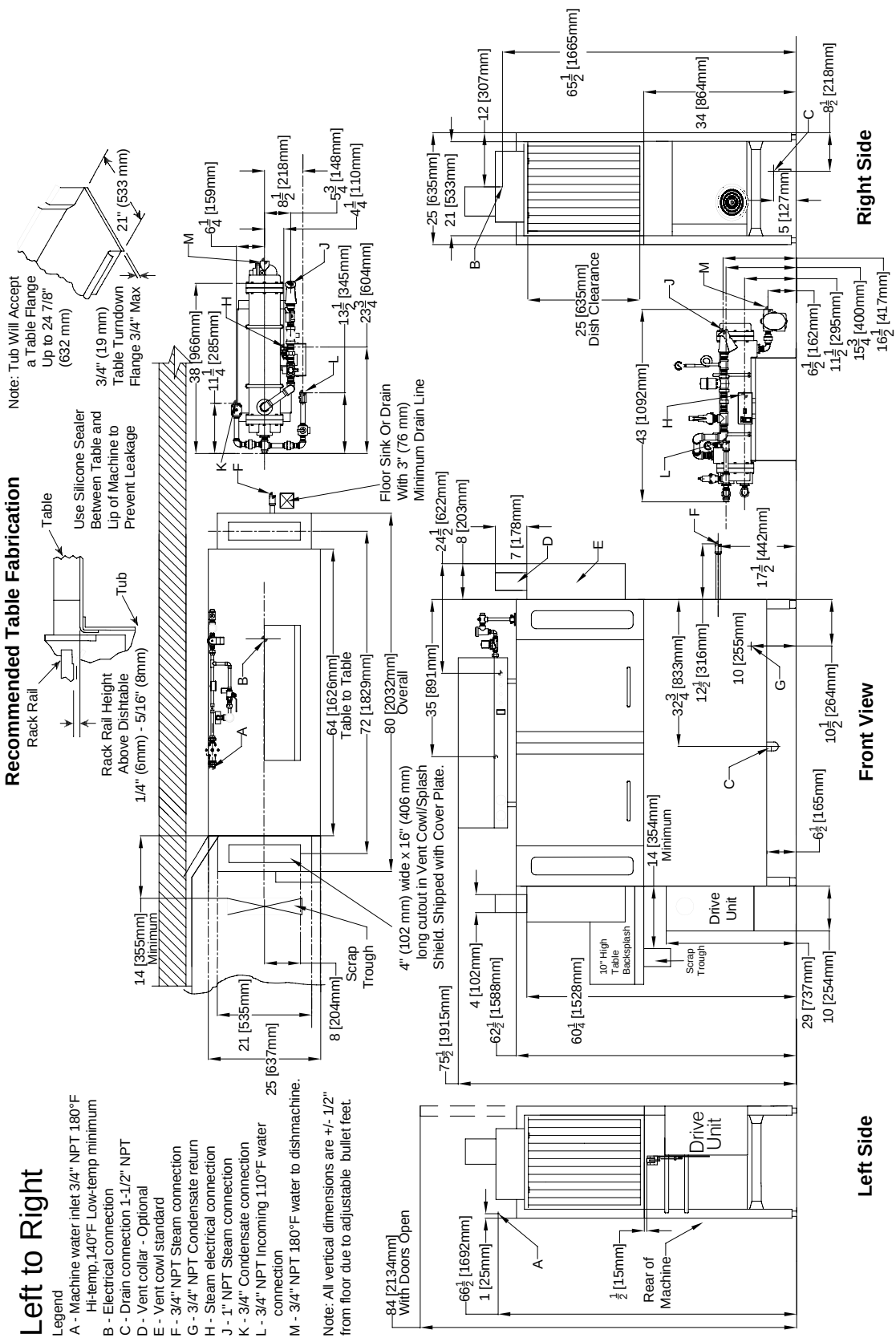

Right to Left
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp, 140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Tub
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
21" (533 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
64 [1626mm] Table to Table
72 [1829mm]
80 [2032mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
21 [535mm]
25 [637mm]
8 [204mm]
Drive Unit
Rear of Machine
84 [2134mm] With Doors Open
Left Side
Front View
Right Side
12 [307mm]
65½ [1665mm]
25 [635mm]
21 [533mm]
24½ [622mm]
8 [203mm]
7 [178mm]
25 [635mm] Dish Clearance
34 [864mm]
5 [127mm]
8½ [218mm]
35 [891mm]
75½ [1915mm]
4 [102mm]
62½ [1588mm]
60¼ [1528mm]
32¾ [833mm]
6½ [165mm]
29 [737mm]
10 [254mm]
66½ [1692mm]
1 [25mm]
½ [15mm]

AJ-64 GAS - LEFT TO RIGHT

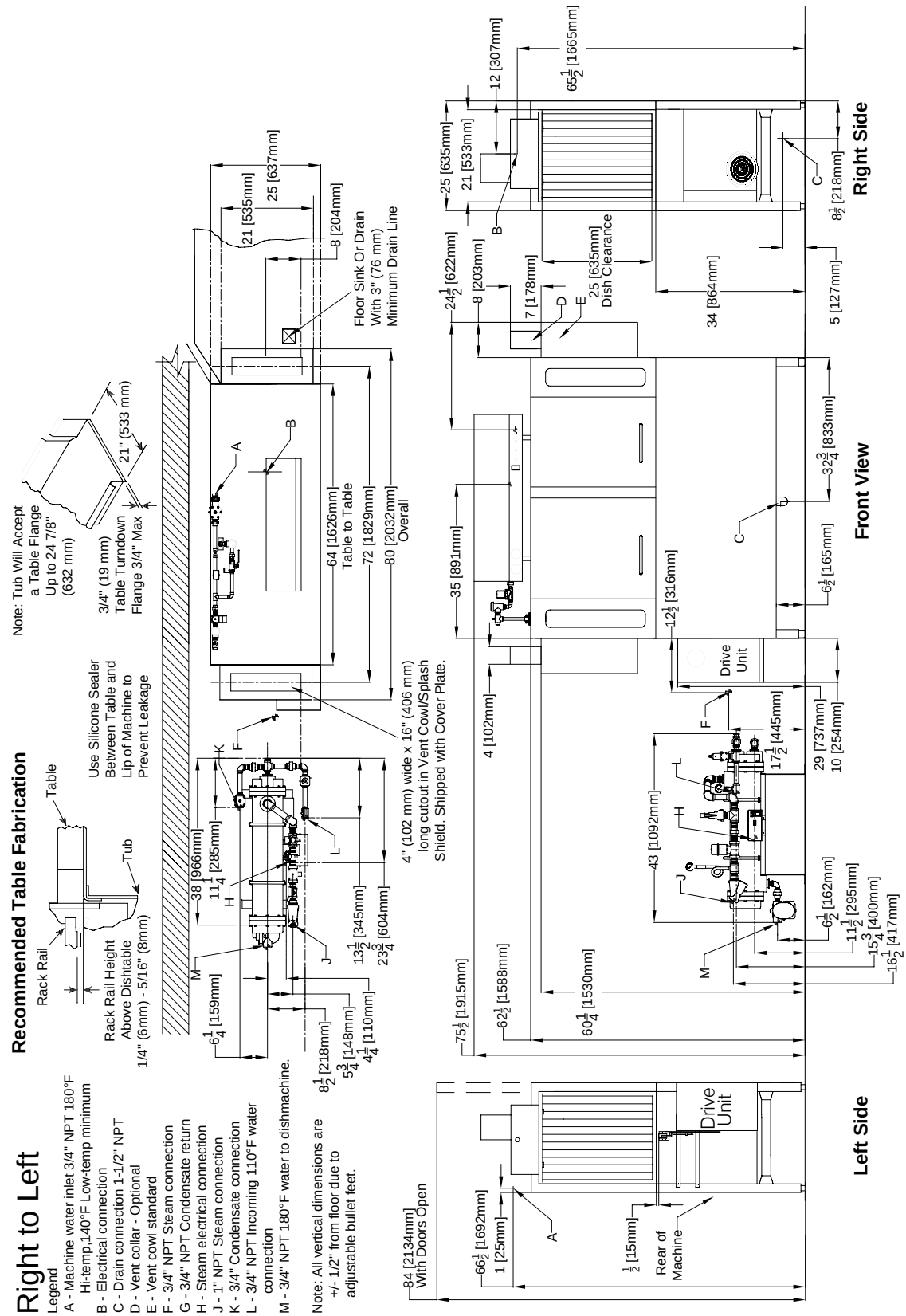

Left to Right
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
14 [355mm] Minimum
21 [535mm]
25 [637mm]
8 [204mm]
Scrap Trough
64 [1626mm] Table to Table
72 [1826mm]
80 [2032mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
84 [2134mm] With Doors Open
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
Left Side
Front View
Right Side
Drive Unit
Rear of Machine
10" High Table Backsplash
Scrap Trough
14 [354mm] Minimum
35 [891mm]
75½ [1915mm]
4 [102mm]
62½ [1588mm]
60¼ [1530mm]
66½ [1692mm]
1 [25mm]
½ [15mm]
29 [737mm]
10 [254mm]
6½ [165mm]
32¾ [833mm]
24½ [622mm]
8 [203mm]
7 [178mm]
31¼ [795mm]
26½ [673mm]
36 [914mm]
6 [152mm]
65½ [1665mm]
25 [635mm] Dish Clearance
34 [864mm]
12 [307mm]
25 [635mm]
21 [533mm]
5 [127mm]
8½ [218mm]
8¾ [222mm]
11¾ [298mm]
14¾ [375mm]
20¾ [527mm]
30 [763mm]
14 [357mm]
7¼ [185mm]
6 [154mm]
1¼ [35mm]

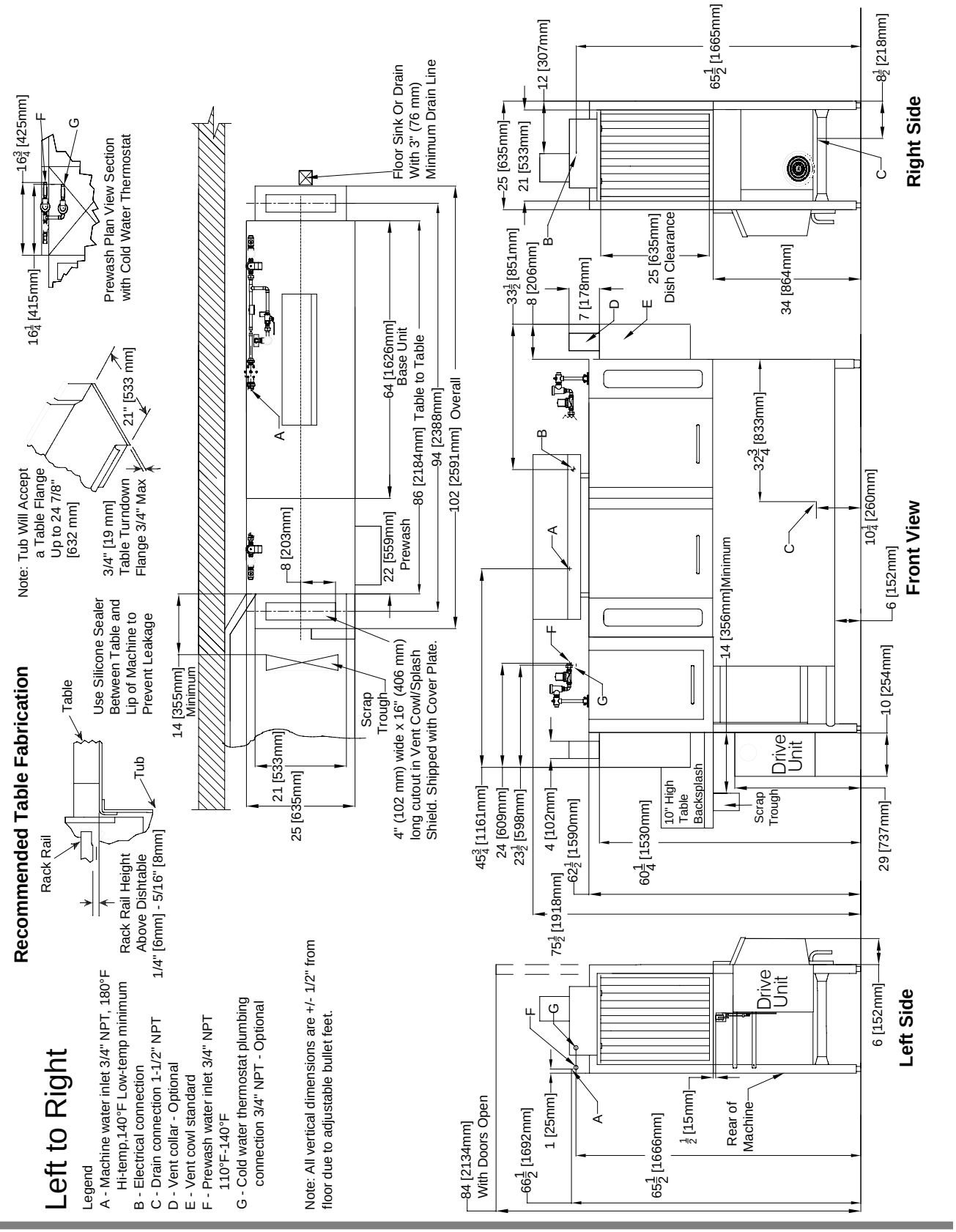

Right to Left
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable
1/4" (6mm) - 5/16" (8mm)
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" (632 mm)
3/4" (19 mm) Table Turndown Flange 3/4" Max
21" (533 mm)
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
64 [1626mm] Table to Table
72 [1829mm]
80 [2032mm] Overall
Left Side
Front View
Right Side
Drive Unit
Rear of Machine
84 [2134mm] With Doors Open
75½ [1915mm]
62½ [1588mm]
60¼ [1530mm]
35 [891mm]
16 [407mm]
34 [864mm]
25 [635mm] Dish Clearance
24½ [622mm]
25 [635mm]
21 [533mm]
12 [307mm]
65½ [1665mm]
8 [203mm]
7 [178mm]
5 [127mm]
8½ [218mm]
6½ [165mm]
32¾ [833mm]
4 [102mm]
29 [737mm]
10 [254mm]
6½ [163mm]
36 [914mm]
31¼ [794mm]
26½ [672mm]
66½ [1692mm]
1 [25mm]
½ [15mm]
30 [763mm]
14 [357mm]
7¼ [185mm]
6 [152mm]
1¼ [35mm]
14¾ [375mm]
20¾ [527mm]
8¾ [222mm]
11¾ [298mm]
21 [535mm]
25 [637mm]
8 [204mm]

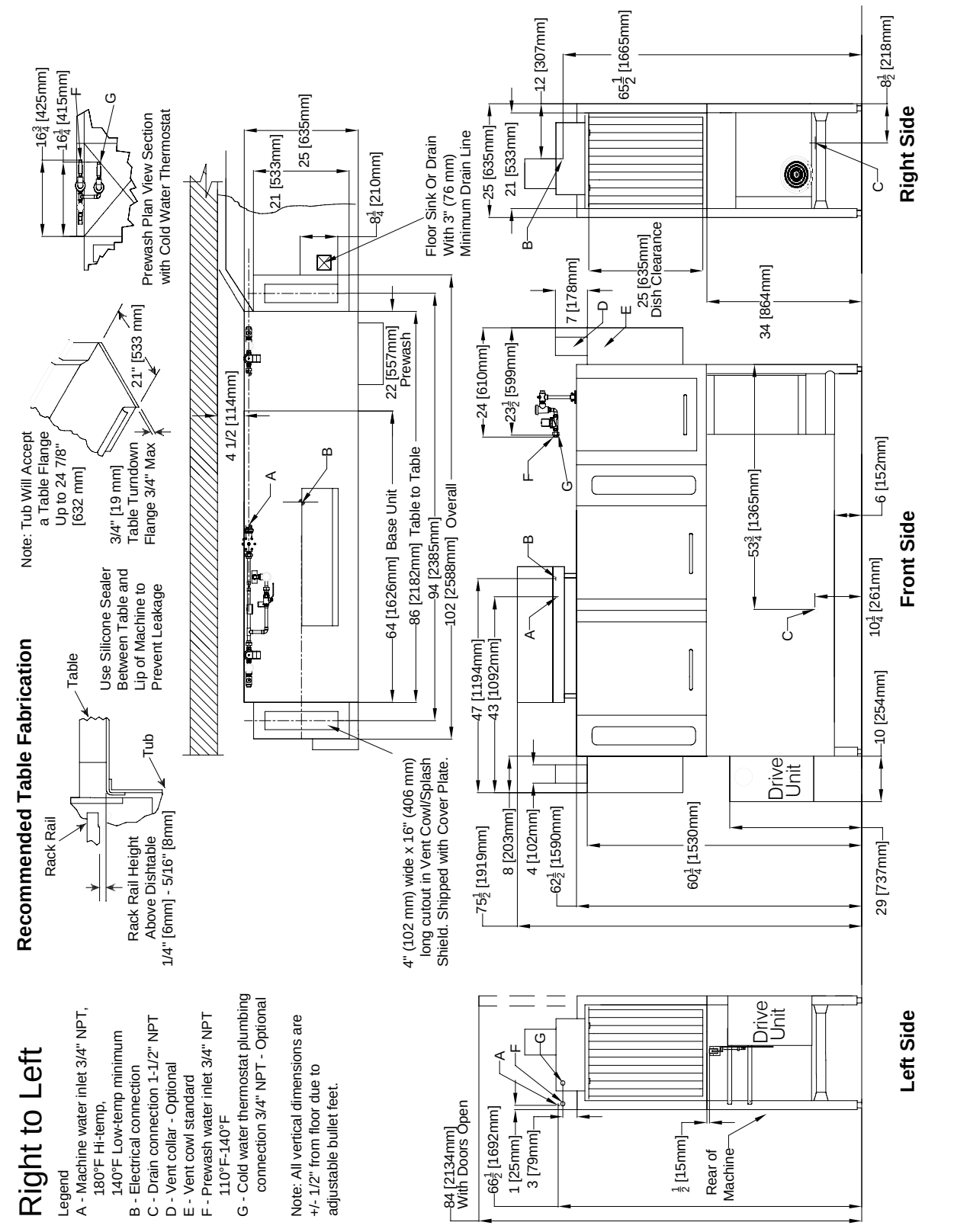
AJ-64 STEAM - LEFT TO RIGHT

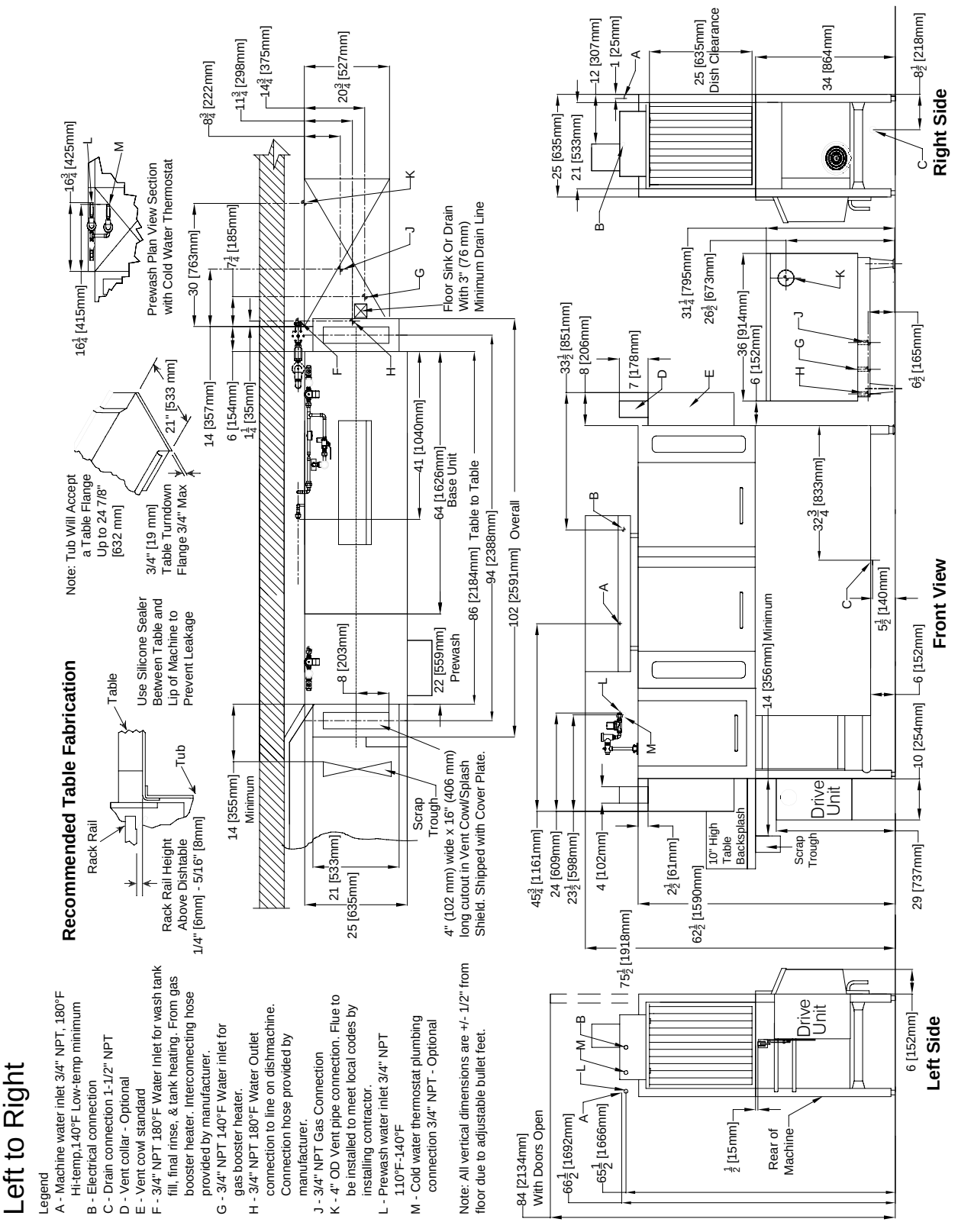


AJ-64 STEAM - RIGHT TO LEFT

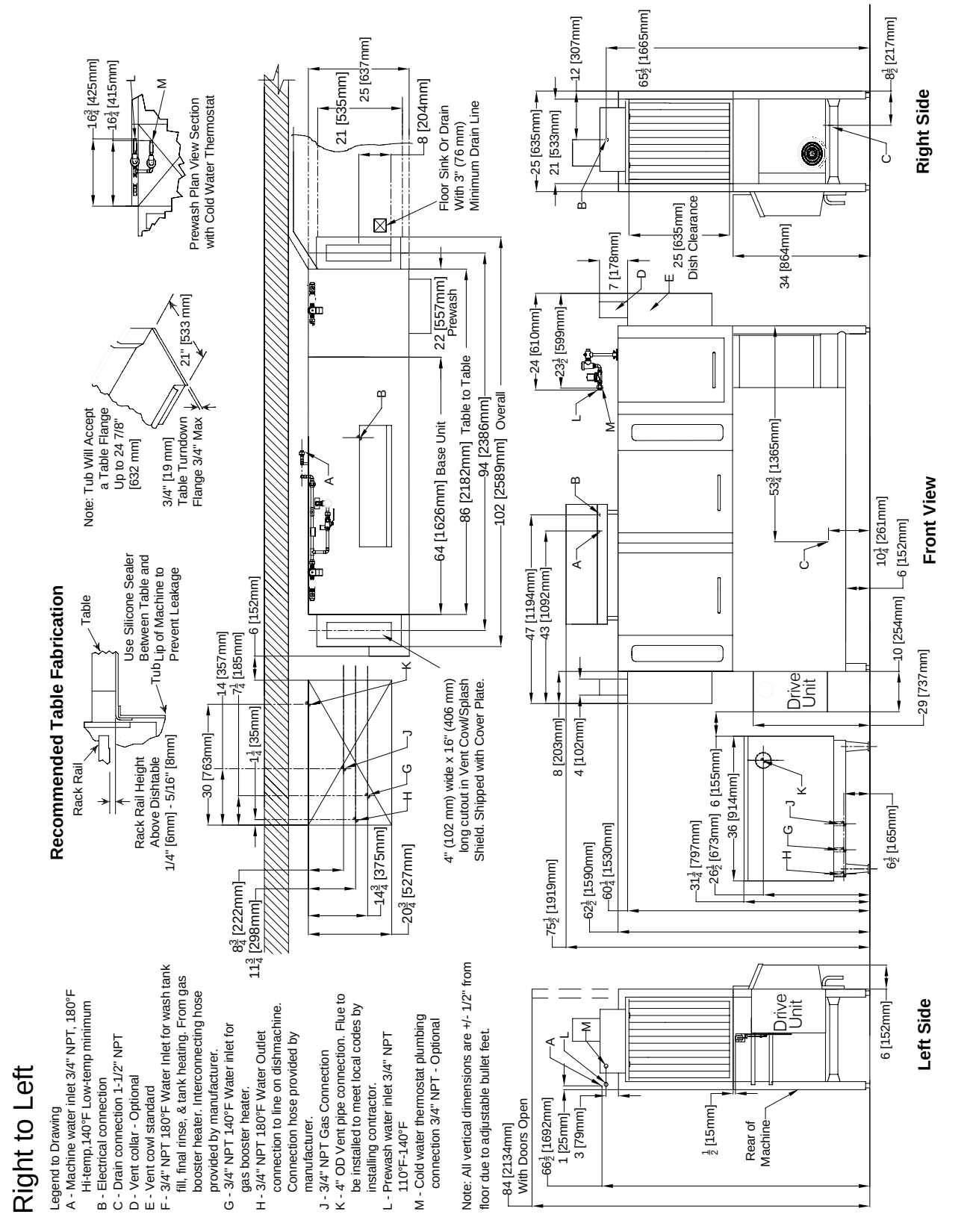



Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - Prewash water inlet 3/4" NPT 110°F-140°F
G - Cold water thermostat plumbing connection 3/4" NPT - Optional
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
14 [355mm] Minimum
8 [203mm]
22 [559mm] Prewash
64 [1626mm] Base Unit
86 [2184mm] Table to Table
94 [2388mm]
102 [2591mm] Overall
21 [533mm]
25 [635mm]
Scrap Trough
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Left Side
Front View
Right Side
84 [2134mm] With Doors Open
66½ [1692mm]
65½ [1666mm]
1 [25mm]
½ [15mm]
Rear of Machine
Drive Unit
6 [152mm]
75½ [1918mm]
62½ [1590mm]
60¼ [1530mm]
45¾ [1161mm]
24 [609mm]
23½ [598mm]
4 [102mm]
10" High Table Backsplash
Scrap Trough
14 [356mm]Minimum
10 [254mm]
29 [737mm]
32¾ [833mm]
10¼ [260mm]
6 [152mm]
33½ [851mm]
8 [206mm]
7 [178mm]
25 [635mm] Dish Clearance
34 [864mm]
25 [635mm]
21 [533mm]
12 [307mm]
65½ [1665mm]
8½ [218mm]
16¾ [425mm]
16¼ [415mm]

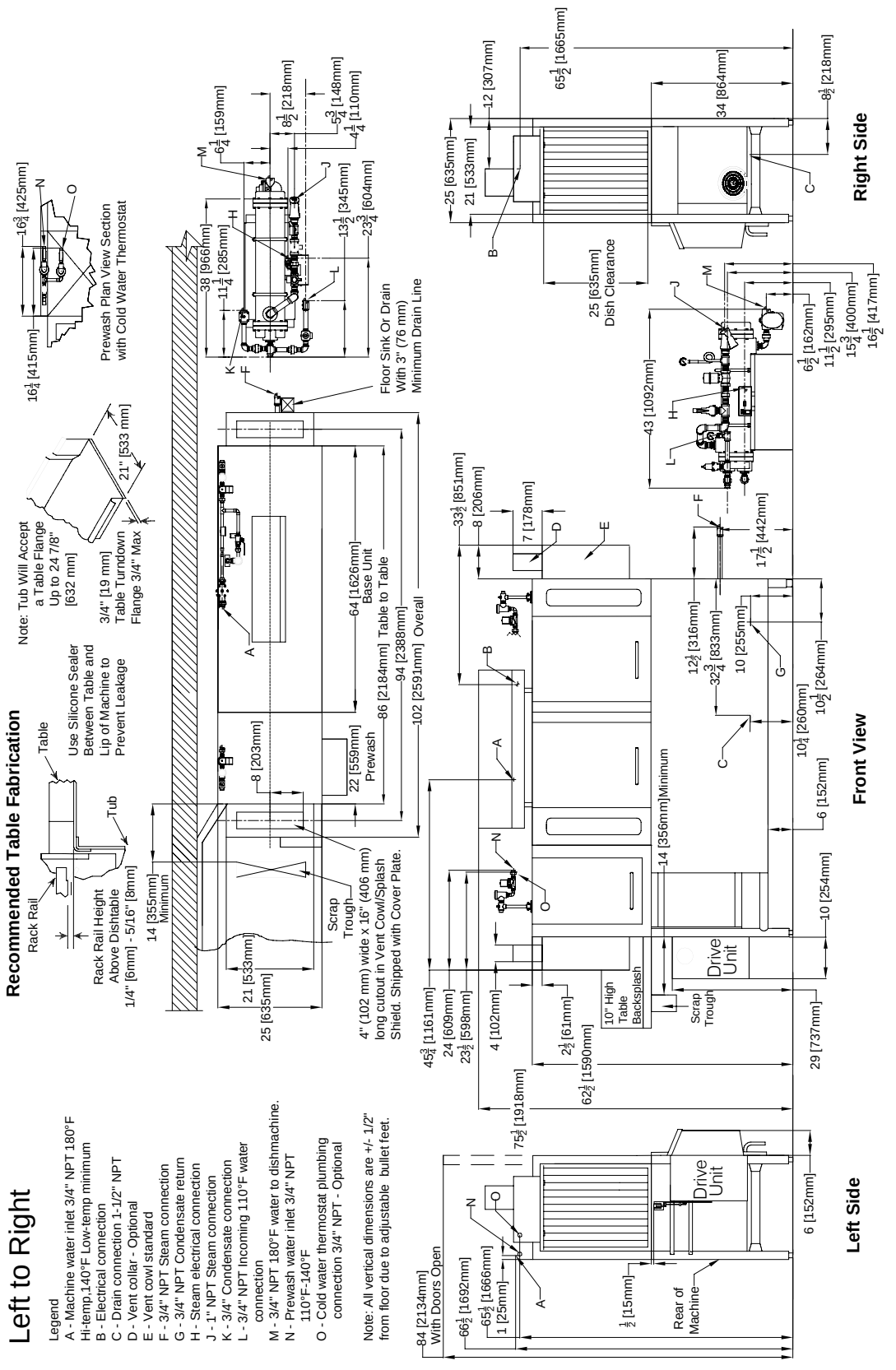

Right to Left
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp, 140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - Prewash water inlet 3/4" NPT 110°F-140°F
G - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
16¾ [425mm]
16¼ [415mm]
4 1/2 [114mm]
21 [533mm]
25 [635mm]
8¼ [210mm]
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
22 [557mm] Prewash
64 [1626mm] Base Unit
86 [2182mm] Table to Table
94 [2385mm]
102 [2588mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Left Side
84 [2134mm] With Doors Open
66½ [1692mm]
1 [25mm]
3 [79mm]
½ [15mm]
Rear of Machine
Drive Unit
75½ [1919mm]
8 [203mm]
4 [102mm]
62½ [1590mm]
47 [1194mm]
43 [1092mm]
60¼ [1530mm]
Front Side
24 [610mm]
23½ [599mm]
7 [178mm]
25 [635mm] Dish Clearance
34 [864mm]
53¾ [1365mm]
10¼ [261mm]
6 [152mm]
10 [254mm]
29 [737mm]
Right Side
12 [307mm]
65½ [1665mm]
25 [635mm]
21 [533mm]
8½ [218mm]


Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp.140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
Scrap Trough
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Drive Unit
10" High Table Backsplash
Rear of Machine
Left Side
Front View
Right Side
84 [2134mm] With Doors Open
102 [2591mm] Overall
86 [2184mm] Table to Table
64 [1626mm] Base Unit
41 [1040mm]
22 [559mm] Prewash
14 [355mm] Minimum
14 [356mm] Minimum
8 [203mm]
21 [533mm]
25 [635mm]
30 [763mm]
14 [357mm]
6 [154mm]
1¾ [35mm]
7¼ [185mm]
8¾ [222mm]
11¾ [298mm]
14¾ [375mm]
20¾ [527mm]
16¼ [415mm]
16¾ [425mm]
94 [2388mm]
45¾ [1161mm]
24 [609mm]
23½ [598mm]
4 [102mm]
75½ [1918mm]
62½ [1590mm]
2½ [61mm]
½ [15mm]
66½ [1692mm]
65½ [1666mm]
6 [152mm]
10 [254mm]
29 [737mm]
6 [152mm]
5½ [140mm]
32¾ [833mm]
33½ [851mm]
8 [206mm]
7 [178mm]
31¼ [795mm]
26½ [673mm]
36 [914mm]
6 [152mm]
6½ [165mm]
12 [307mm]
1 [25mm]
25 [635mm]
21 [533mm]
25 [635mm] Dish Clearance
34 [864mm]
9½ [218mm]

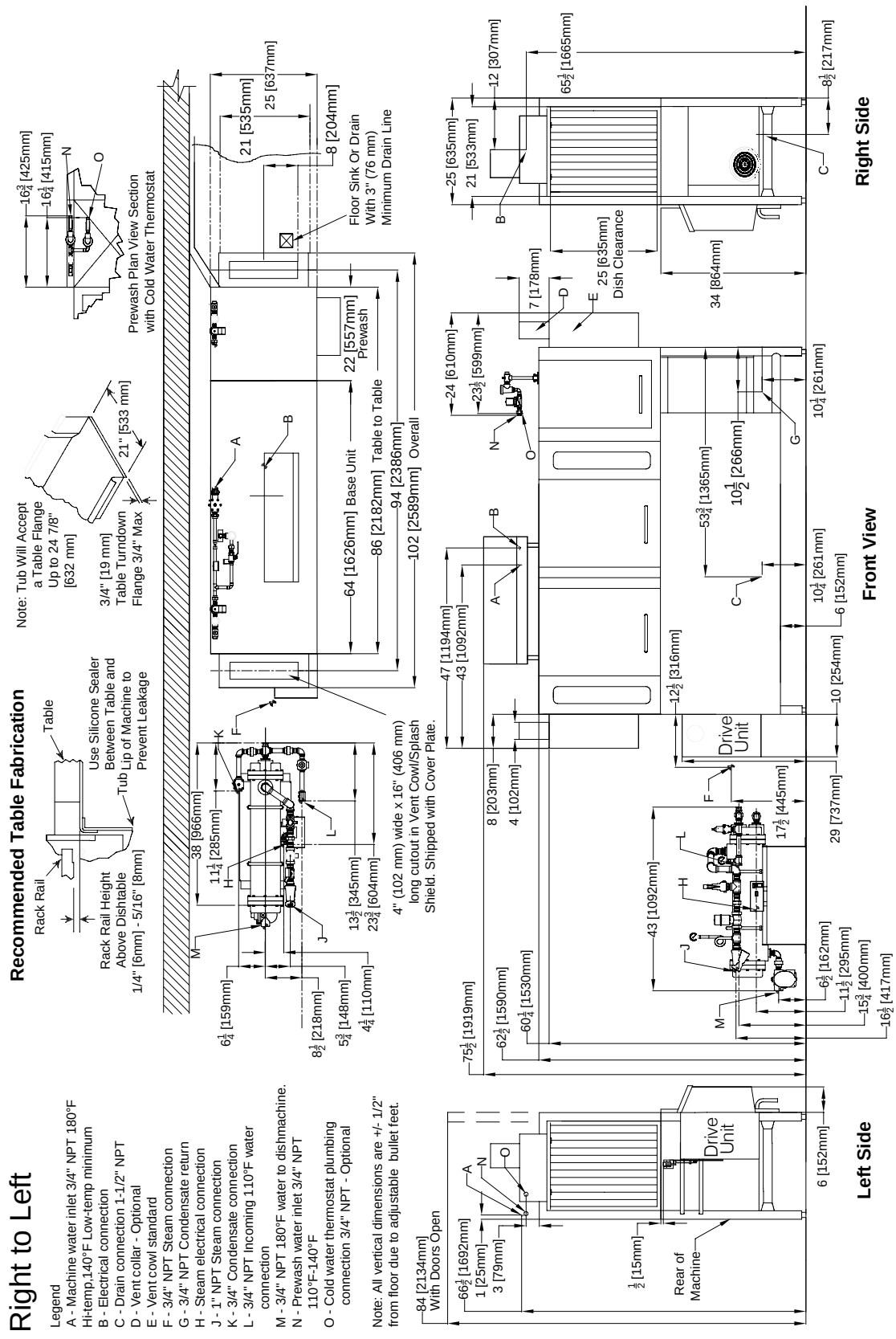
AJ-86 GAS - RIGHT TO LEFT

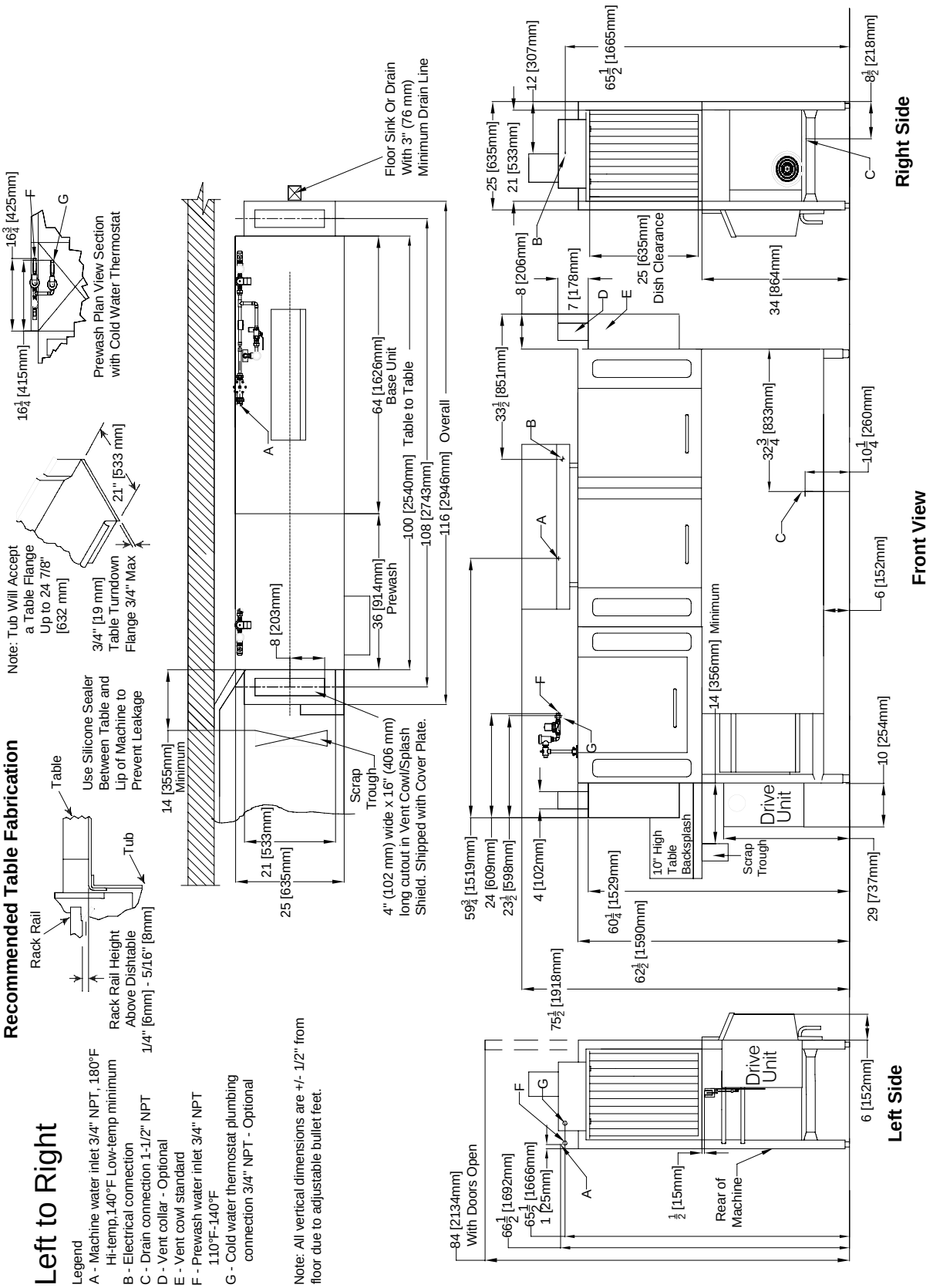

Right to Left
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable
1/4" [6mm] - 5/16" [8mm]
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
21" [533 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
64 [1626mm] Base Unit
86 [2182mm] Table to Table
94 [2386mm] Overall
102 [2589mm] Overall
22 [557mm] Prewash
Drive Unit
Rear of Machine
Left Side
Front View
Right Side
25 [635mm] Dish Clearance
34 [864mm]

AJ-86 STEAM - LEFT TO RIGHT

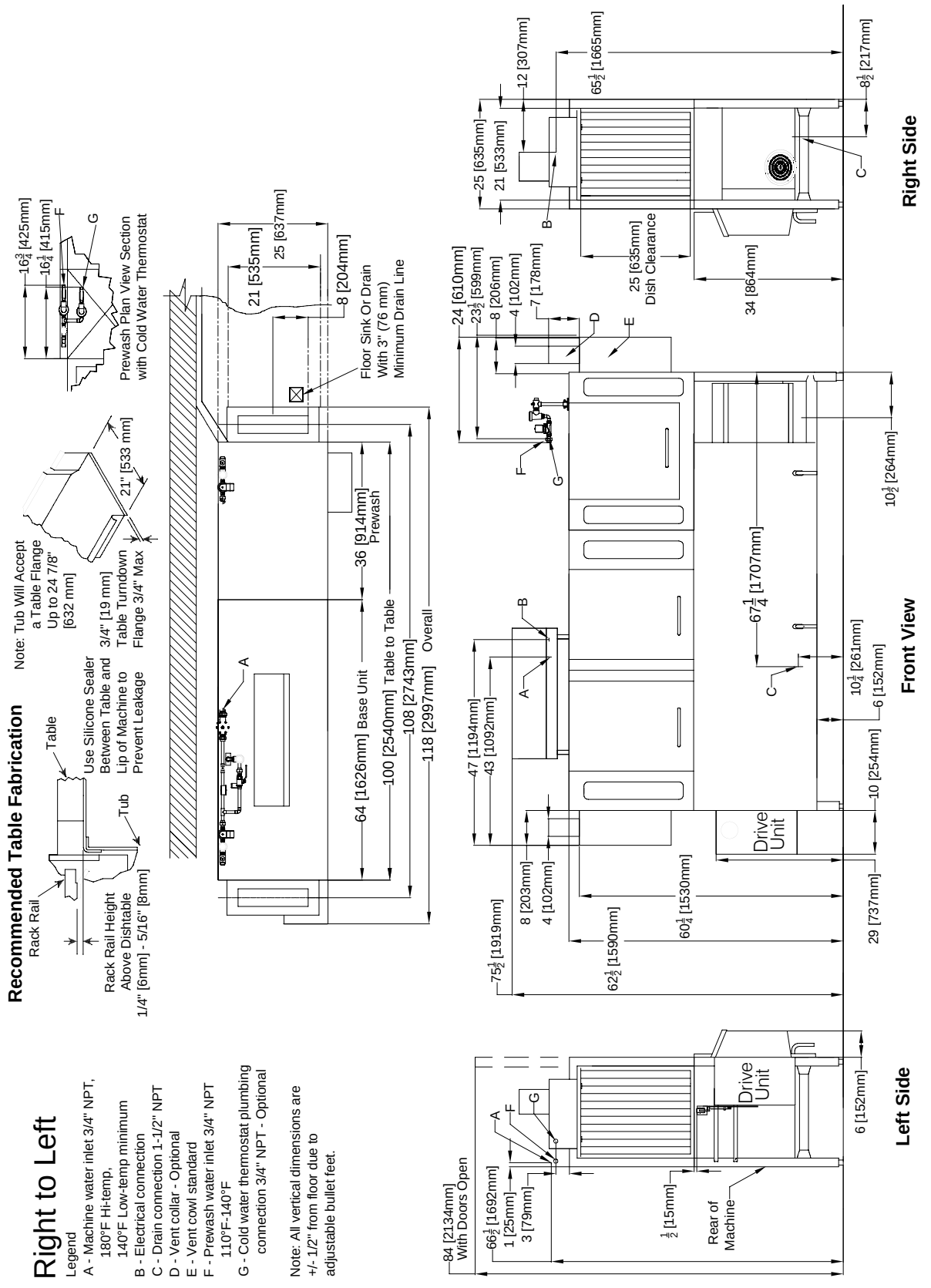

Left to Right
Legend
A - Machine water inlet 3/4" NPT 180°F Hi-temp 140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT Steam connection
G - 3/4" NPT Condensate return
H - Steam electrical connection
J - 1" NPT Steam connection
K - 3/4" Condensate connection
L - 3/4" NPT Incoming 110°F water connection
M - 3/4" NPT 180°F water to dishmachine.
N - Prewash water inlet 3/4" NPT 110°F-140°F
O - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
14 [355mm] Minimum
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
64 [1626mm] Base Unit
86 [2184mm] Table to Table
94 [2388mm] Overall
102 [2591mm] Overall
22 [559mm] Prewash
8 [203mm]
21 [533mm]
25 [635mm]
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Scrap Trough
Drive Unit
10" High Table Backsplash
14 [356mm]Minimum
Rear of Machine
1/2 [15mm]
84 [2134mm] With Doors Open
Left Side
Front View
Right Side
25 [635mm] Dish Clearance
43 [1092mm]

AJ-86 STEAM - RIGHT TO LEFT

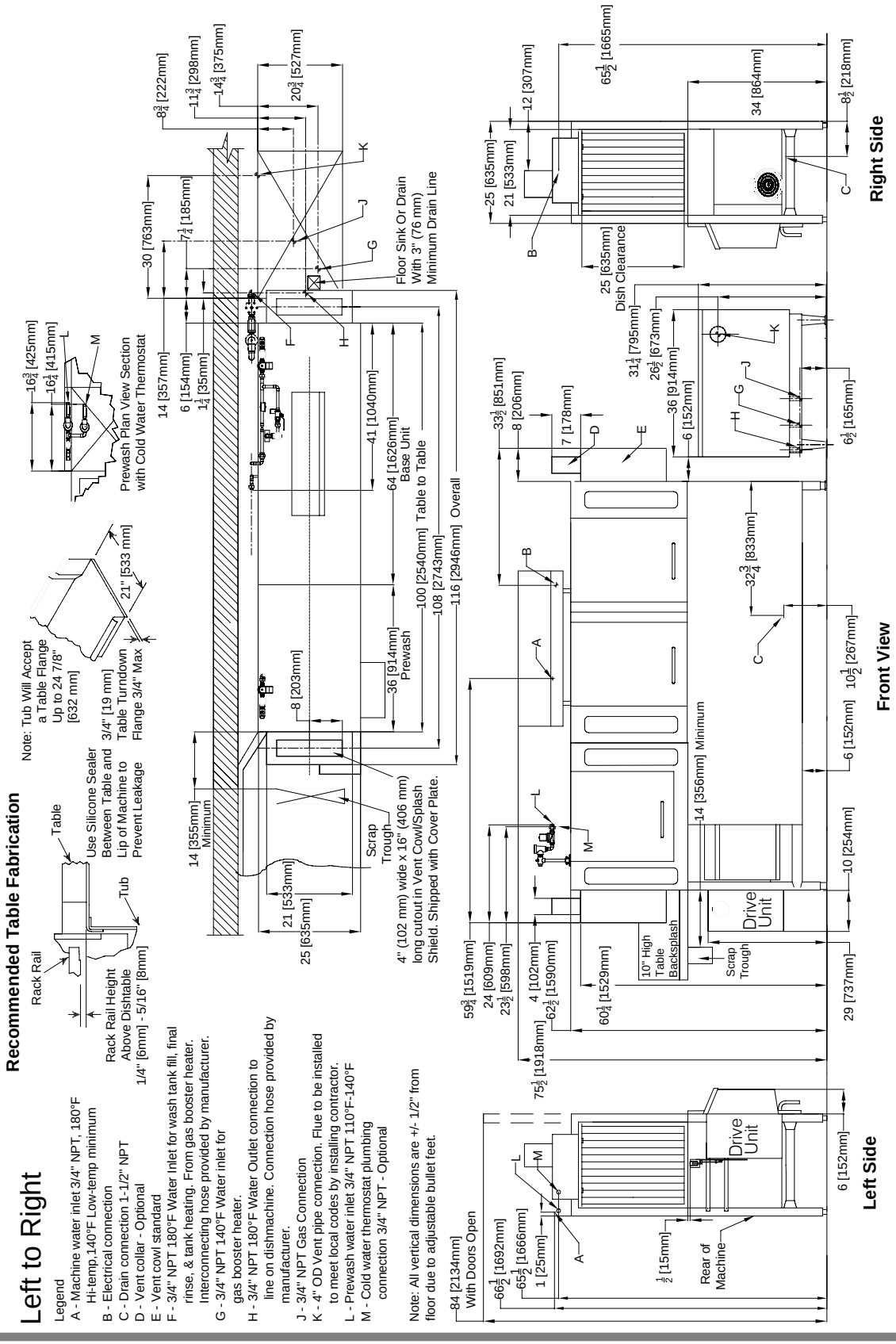

Right to Left
Legend
A - Machine water inlet 3/4" NPT 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT Steam connection
G - 3/4" NPT Condensate return
H - Steam electrical connection
J - 1" NPT Steam connection
K - 3/4" Condensate connection
L - 3/4" NPT Incoming 110°F water connection
M - 3/4" NPT 180°F water to dishmachine.
N - Prewash water inlet 3/4" NPT 110°F-140°F
O - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Use Silicone Sealer Between Table and Tub Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Base Unit
Table to Table
Overall
Prewash
Drive Unit
Front View
Left Side
Right Side
Rear of Machine
25 [635mm] Dish Clearance
34 [864mm]


Left to Right
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - Prewash water inlet 3/4" NPT 110°F-140°F
G - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
14 [355mm] Minimum
21 [533mm]
25 [635mm]
8 [203mm]
36 [914mm] Prewash
64 [1626mm] Base Unit
100 [2540mm] Table to Table
108 [2743mm]
116 [2946mm] Overall
Scrap Trough
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Left Side
Front View
Right Side
Drive Unit
Scrap Trough
10" High Table Backsplash
14 [356mm] Minimum
Rear of Machine
84 [2134mm] With Doors Open
75½ [1918mm]
62½ [1590mm]
60¼ [1529mm]
59¾ [1519mm]
24 [609mm]
23½ [598mm]
4 [102mm]
66½ [1692mm]
65½ [1666mm]
1 [25mm]
½ [15mm]
33½ [851mm]
32¾ [833mm]
34 [864mm]
25 [635mm] Dish Clearance
8 [206mm]
7 [178mm]
25 [635mm]
21 [533mm]
12 [307mm]
65½ [1665mm]
8½ [218mm]
10¼ [260mm]
6 [152mm]
10 [254mm]
29 [737mm]
6 [152mm]
A
B
C
D
E
F
G

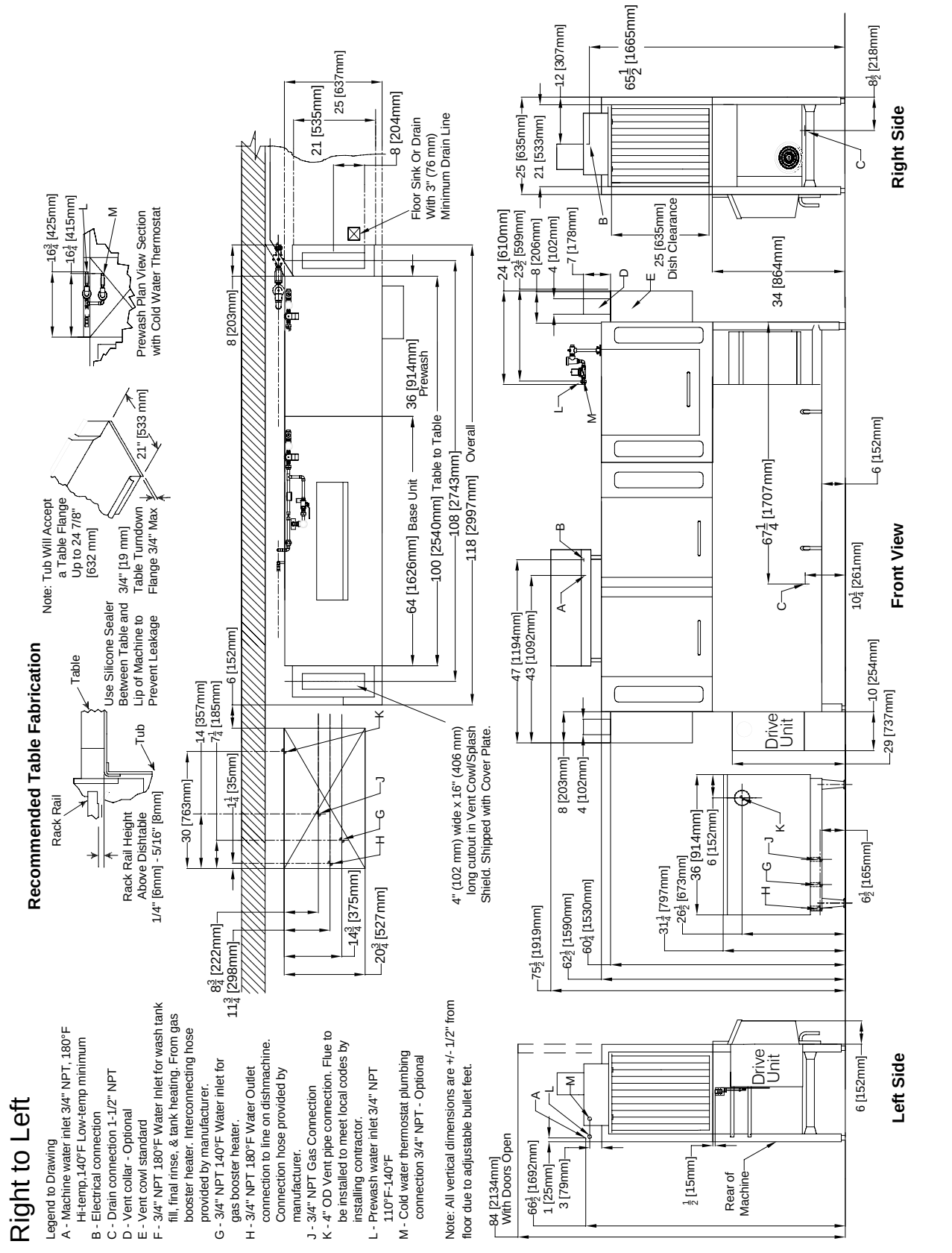
AJ-100 ELECTRIC - RIGHT TO LEFT


Right to Left
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp, 140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - Prewash water inlet 3/4" NPT 110°F-140°F
G - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
21" [533 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
64 [1626mm] Base Unit
36 [914mm] Prewash
100 [2540mm] Table to Table
108 [2743mm]
118 [2997mm] Overall
Front View
Drive Unit
Rear of Machine
Left Side
Right Side
Dish Clearance

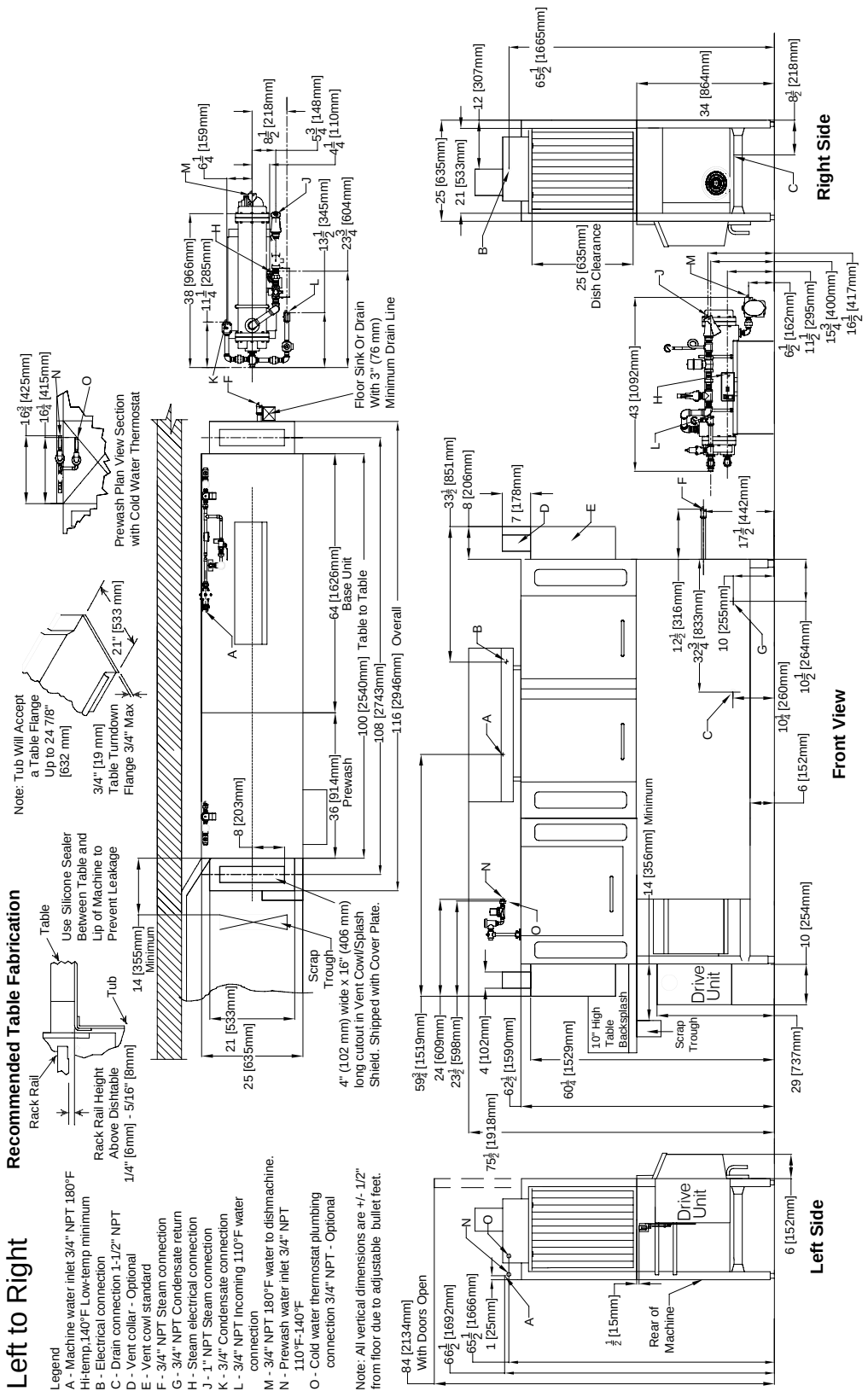
AJ-100 GAS - LEFT TO RIGHT

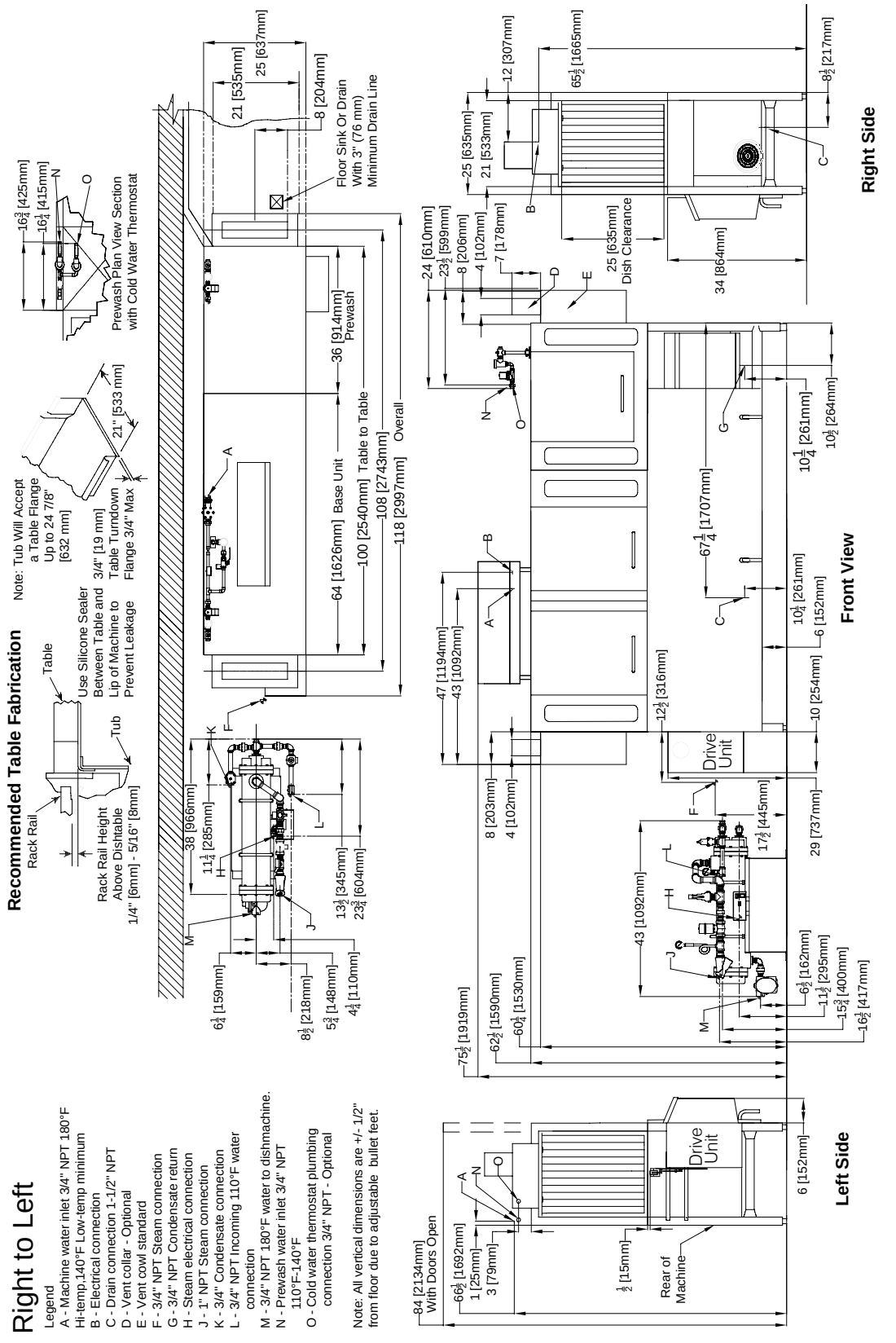

Left to Right
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable
1/4" [6mm] - 5/16" [8mm]
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange
21" [533 mm] Max
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
Legend
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
14 [355mm] Minimum
8 [203mm]
21 [533mm]
25 [635mm]
Scrap Trough
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
36 [914mm] Prewash
41 [1040mm]
64 [1626mm] Base Unit
100 [2540mm] Table to Table
108 [2743mm] Overall
116 [2946mm]
30 [763mm]
14 [357mm]
6 [154mm]
1¼ [35mm]
7¼ [185mm]
8¾ [222mm]
11¾ [298mm]
14¾ [375mm]
20¾ [527mm]
Front View
84 [2134mm] With Doors Open
66½ [1692mm]
65½ [1666mm]
1 [25mm]
½ [15mm]
Rear of Machine
Drive Unit
Left Side
75½ [1918mm]
59¾ [1519mm]
24 [609mm]
23½ [598mm]
4 [102mm]
62½ [1590mm]
60¼ [1529mm]
10" High Table Backsplash
Scrap Trough
14 [356mm] Minimum
6 [152mm]
10 [254mm]
29 [737mm]
33½ [851mm]
8 [206mm]
7 [178mm]
32¾ [833mm]
6 [152mm]
10½ [267mm]
25 [635mm] Dish Clearance
31¼ [795mm]
26½ [673mm]
36 [914mm]
6 [152mm]
25 [635mm]
21 [533mm]
12 [307mm]
65½ [1665mm]
34 [864mm]
8½ [218mm]
6½ [165mm]
Right Side

AJ-100 GAS - RIGHT TO LEFT

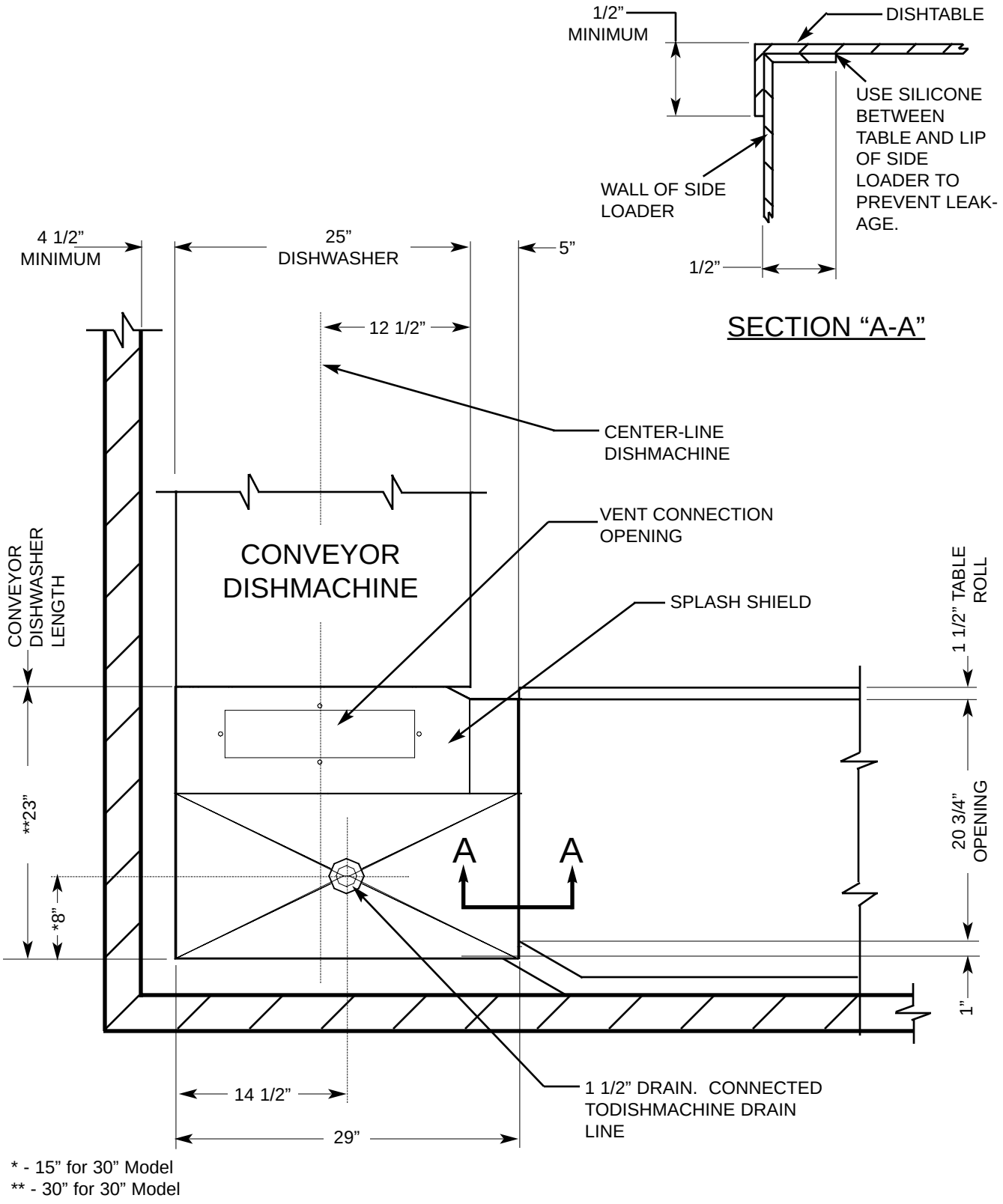

Right to Left
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
64 [1626mm] Base Unit
36 [914mm] Prewash
100 [2540mm] Table to Table
108 [2743mm]
118 [2997mm] Overall
4" (102 mm) wide x 16" (406 mm) long cutout in Vent Cowl/Splash Shield. Shipped with Cover Plate.
Drive Unit
Left Side
Front View
Right Side
Rear of Machine
Legend to Drawing
A - Machine water inlet 3/4" NPT, 180°F Hi-temp,140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT 180°F Water Inlet for wash tank fill, final rinse, & tank heating. From gas booster heater. Interconnecting hose provided by manufacturer.
G - 3/4" NPT 140°F Water inlet for gas booster heater.
H - 3/4" NPT 180°F Water Outlet connection to line on dishmachine. Connection hose provided by manufacturer.
J - 3/4" NPT Gas Connection
K - 4" OD Vent pipe connection. Flue to be installed to meet local codes by installing contractor.
L - Prewash water inlet 3/4" NPT 110°F-140°F
M - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.

AJ-100 STEAM - LEFT TO RIGHT



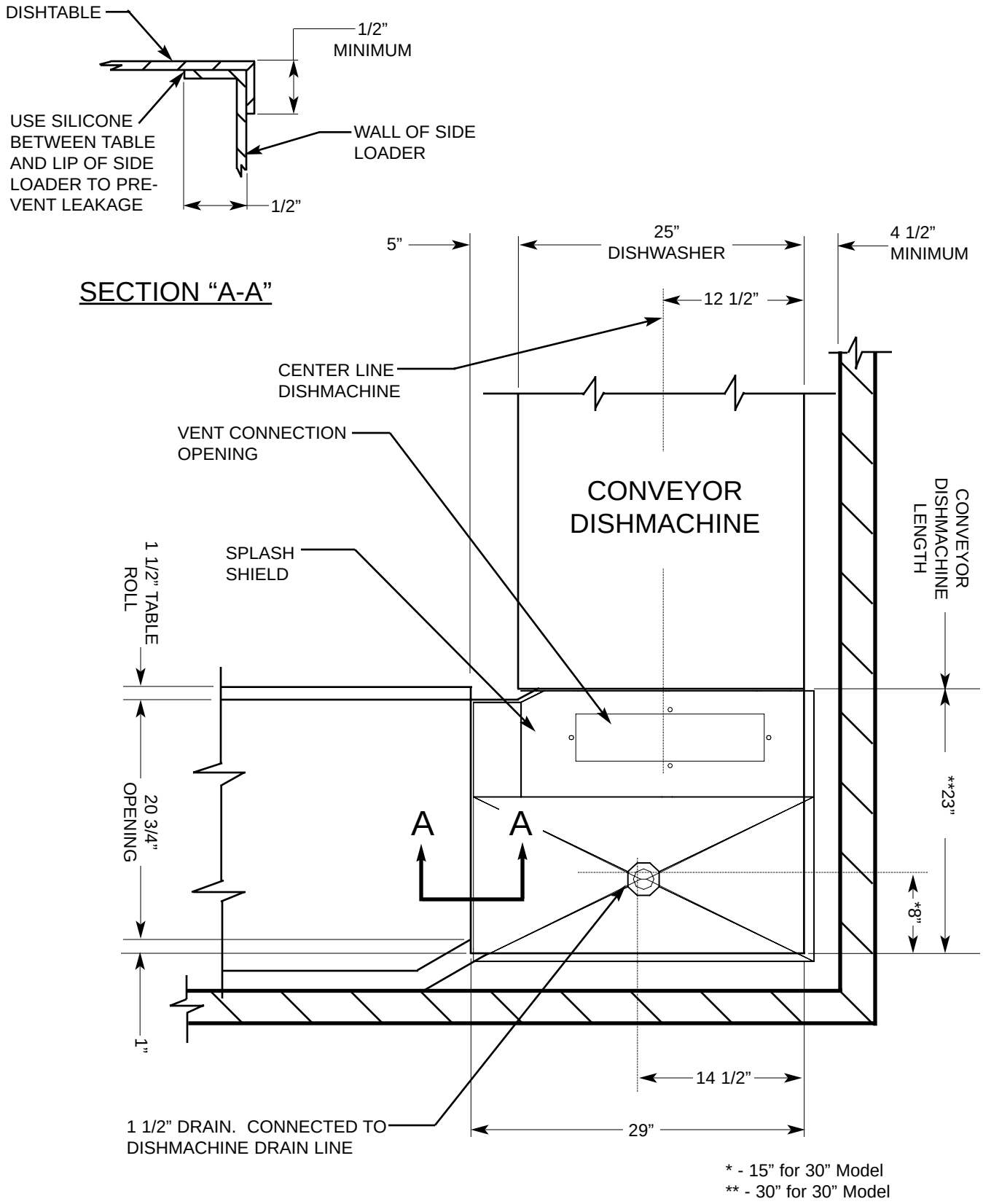

Right to Left
Legend
A - Machine water inlet 3/4" NPT 180°F
Hi-temp.140°F Low-temp minimum
B - Electrical connection
C - Drain connection 1-1/2" NPT
D - Vent collar - Optional
E - Vent cowl standard
F - 3/4" NPT Steam connection
G - 3/4" NPT Condensate return
H - Steam electrical connection
J - 1" NPT Steam connection
K - 3/4" Condensate connection
L - 3/4" NPT Incoming 110°F water connection
M - 3/4" NPT 180°F water to dishmachine.
N - Prewash water inlet 3/4" NPT 110°F-140°F
O - Cold water thermostat plumbing connection 3/4" NPT - Optional
Note: All vertical dimensions are +/- 1/2" from floor due to adjustable bullet feet.
Recommended Table Fabrication
Rack Rail
Table
Use Silicone Sealer Between Table and Lip of Machine to Prevent Leakage
Tub
Rack Rail Height Above Dishtable 1/4" [6mm] - 5/16" [8mm]
Note: Tub Will Accept a Table Flange Up to 24 7/8" [632 mm]
3/4" [19 mm] Table Turndown Flange 3/4" Max
21" [533 mm]
Prewash Plan View Section with Cold Water Thermostat
Floor Sink Or Drain With 3" (76 mm) Minimum Drain Line
21 [535mm]
25 [637mm]
8 [204mm]
36 [914mm] Prewash
64 [1626mm] Base Unit
100 [2540mm] Table to Table
108 [2743mm]
118 [2997mm] Overall
38 [966mm]
Drive Unit
Front View
Left Side
Right Side
Rear of Machine
25 [635mm] Dish Clearance
34 [864mm]
84 [2134mm] With Doors Open
75½ [1919mm]
67¼ [1707mm]

SIDE LOADER (LEFT TO RIGHT) DIMENSIONS



* - 15" for 30" Model
** - 30" for 30" Model

SIDE LOADER (RIGHT TO LEFT) DIMENSIONS



* - 15" for 30" Model
** - 30" for 30" Model

SIDE LOADER INSTALLATION DIMENSIONS

23" SIDE LOADER DIMENSIONS

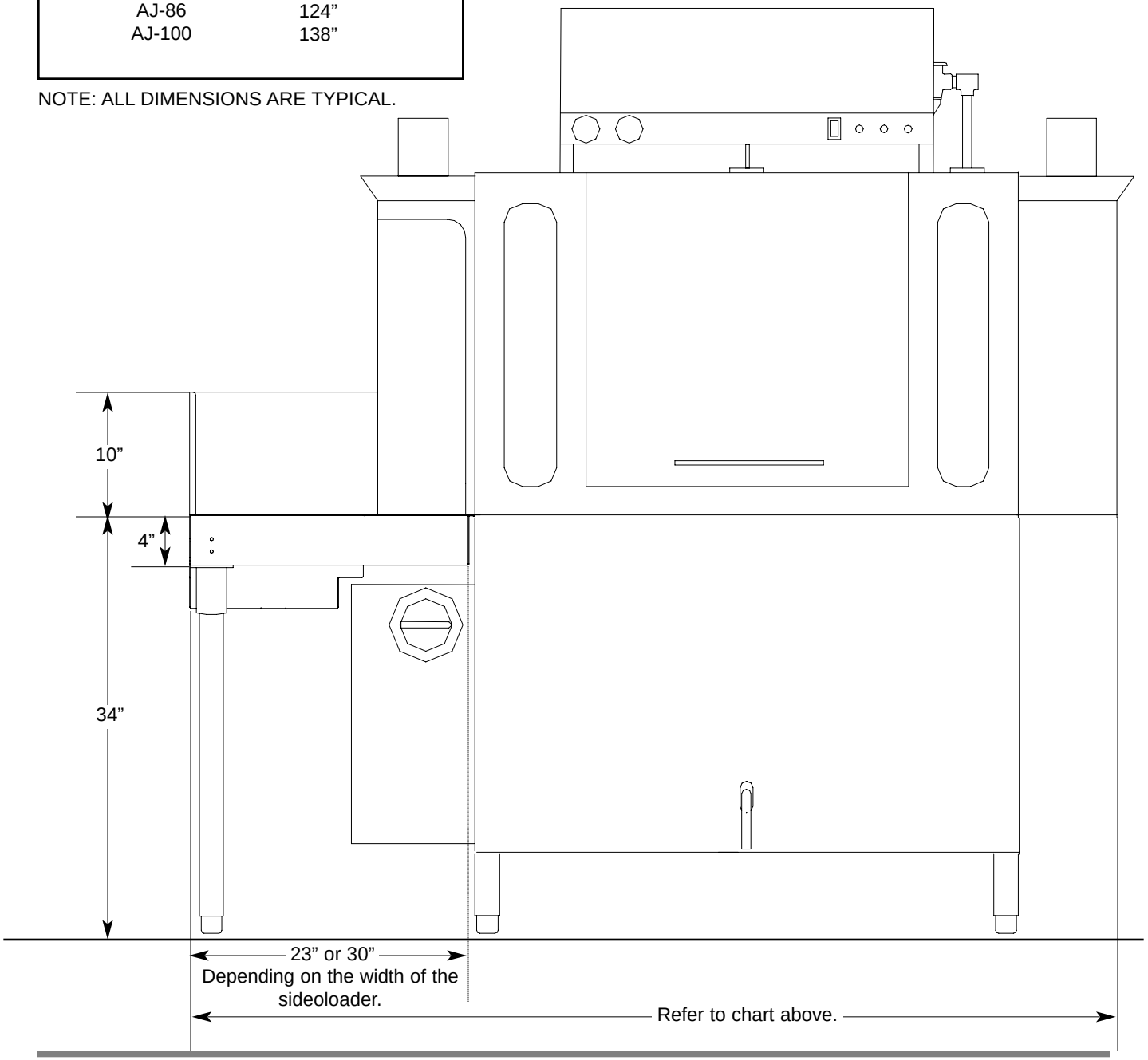
MODEL	DIMENSIONS
AJ-64	95"
AJ-86	117"
AJ-100	131"

30" SIDE LOADER DIMENSIONS

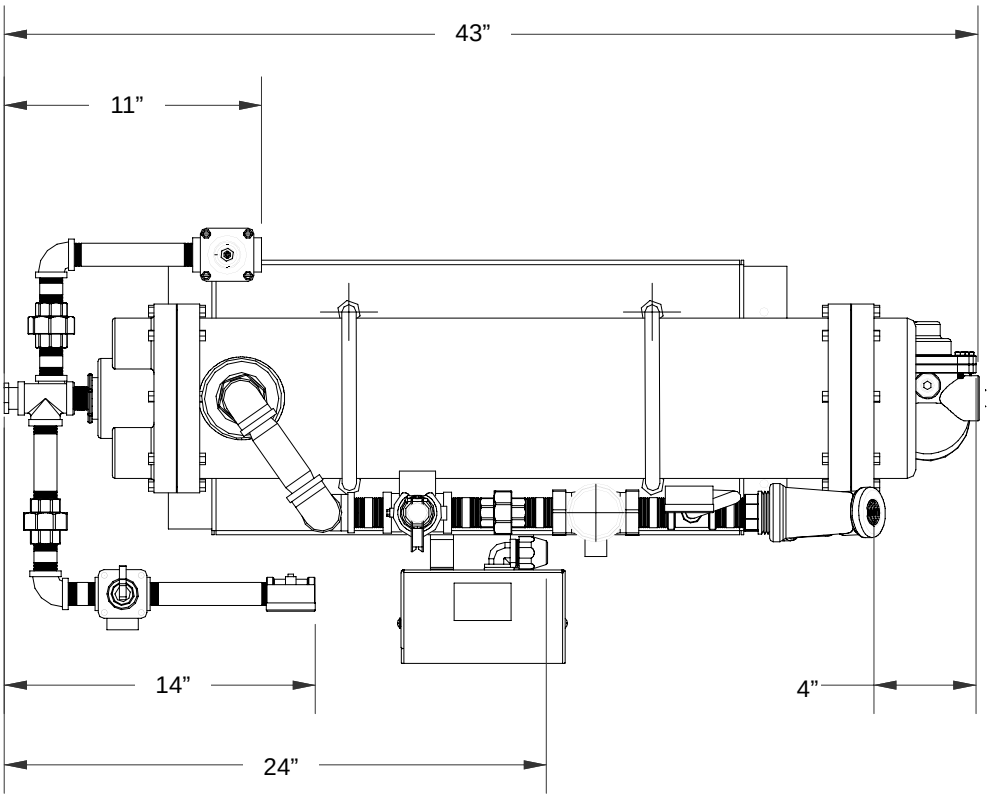
MODEL	DIMENSIONS
AJ-64	102"
AJ-86	124"
AJ-100	138"

NOTE: ALL DIMENSIONS ARE TYPICAL.

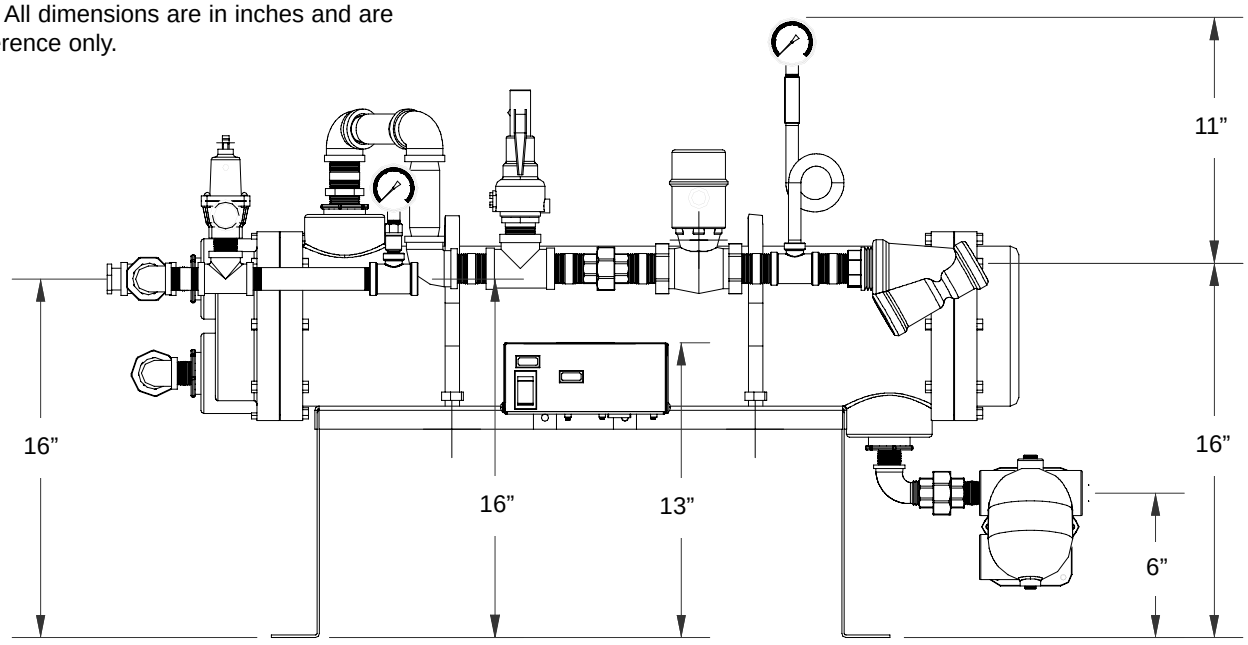
(Left to Right installation shown for reference.)

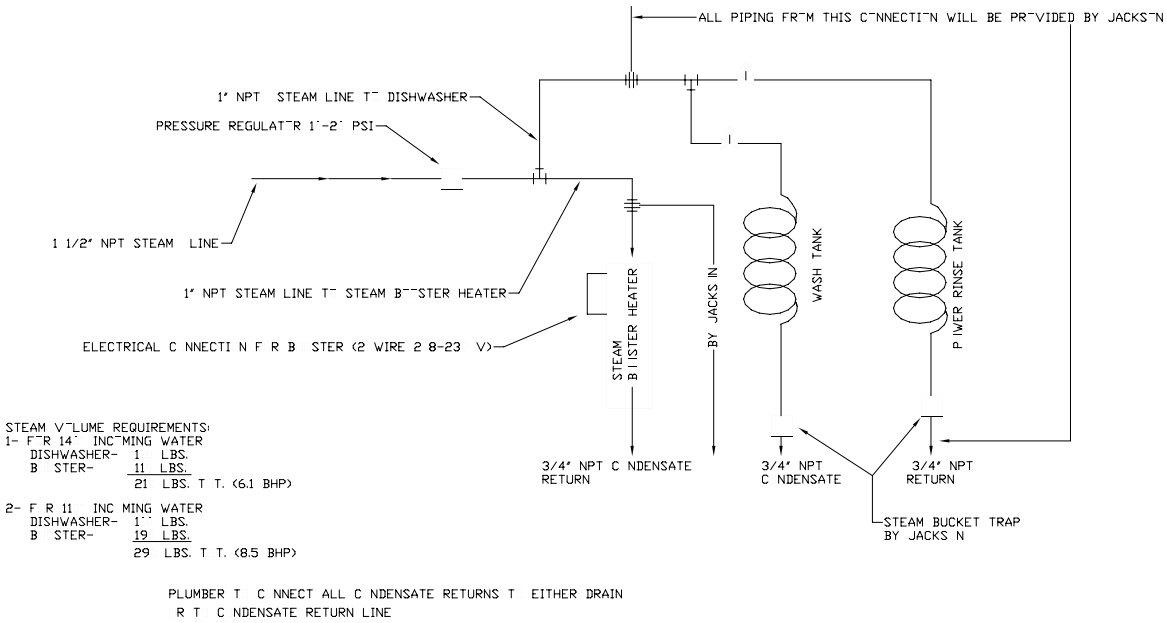


D226 STEAM BOOSTER DIMENSIONS



NOTE: All dimensions are in inches and are for reference only.

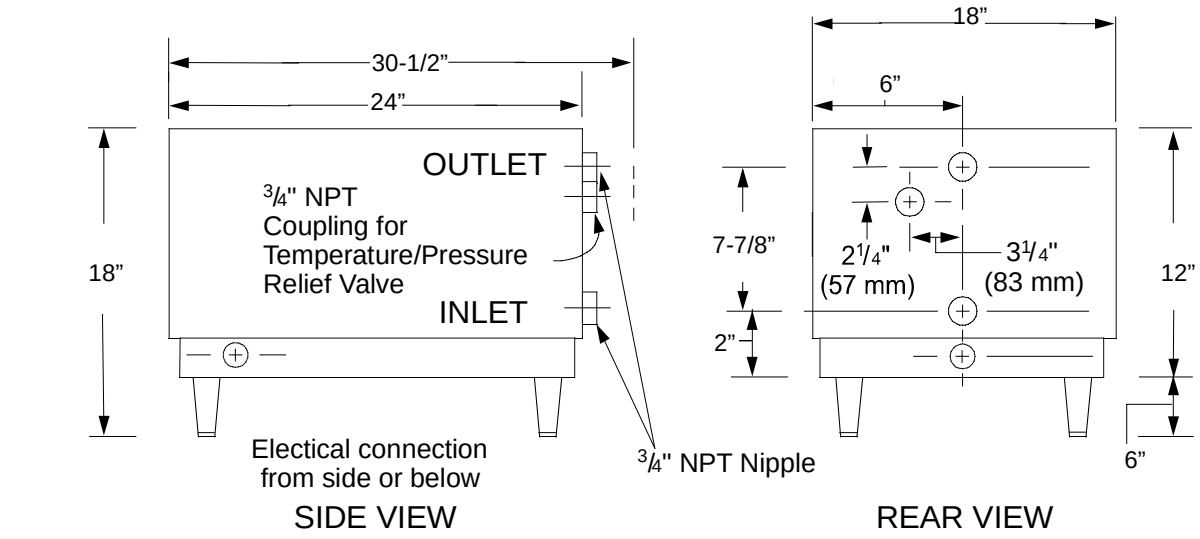


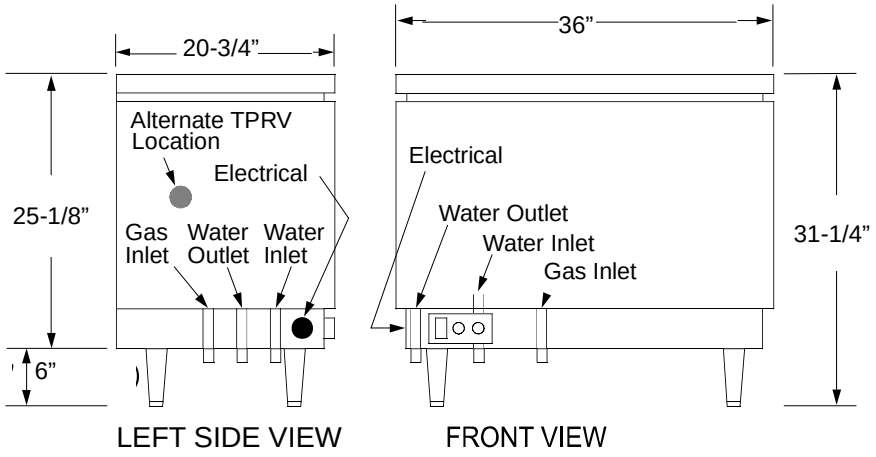

ALL PIPING FR M THIS C NNECTI N WILL BE PR VIDED BY JACKS N
1" NPT STEAM LINE T DISHWASHER
PRESSURE REGULAT R 1 -2 PSI
1 1/2" NPT STEAM LINE
1" NPT STEAM LINE T STEAM B STER HEATER
ELECTRICAL C NNECTI N F R B STER (2 WIRE 2 8-23 V)
STEAM B I STER HEATER
BY JACKS IN
WASH TANK
P IWER RINSE TANK
STEAM V LUME REQUIREMENTS:
1- F R 14 INC MING WATER
DISHWASHER- 1 LBS.
B STER- 11 LBS.
21 LBS. T T. (6.1 BHP)
2- F R 11 INC MING WATER
DISHWASHER- 1 LBS.
B STER- 19 LBS.
29 LBS. T T. (8.5 BHP)
3/4" NPT C NDENSATE RETURN
3/4" NPT C NDENSATE
3/4" NPT RETURN
STEAM BUCKET TRAP BY JACKS N
PLUMBER T C NNECT ALL C NDENSATE RETURNS T EITHER DRAIN R T C NDENSATE RETURN LINE

Steam Booster Piping - Double Tank Machine

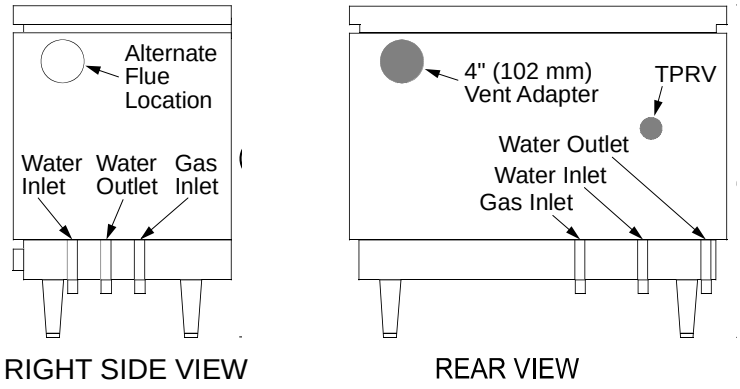
TYPICAL ELECTRIC AND GAS BOOSTER DIMENSIONS

Electric Booster Dimensions (Typical)





Gas Booster Dimensions
(Typical)



SECTION 2:
INSTALLATION/OPERATION INSTRUCTIONS

SECTION 2: INSTALLATION/OPERATION INSTRUCTIONS

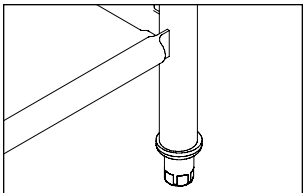
INSTALLATION INSTRUCTIONS

NOTE: THE INSTRUCTIONS PROVIDED HEREIN, UNLESS OTHERWISE SPECIFIED ARE FOR THE DISHMACHINES ONLY. THERE ARE SEPARATE DIRECTIONS FOR THE GAS BOOSTER.

VISUAL INSPECTION: Before installing the unit, check the container and machine for damage. A damaged container is an indicator that there may be some damage to the machine. If there is damage to both the container and machine, do not throw away the container. The dishmachine has been inspected and packed at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in damage to the unit while in transit. If such a situation occurs, do not return the unit to Jackson; instead, contact the carrier and ask them to send a representative to the site to inspect the damage to the unit and to complete an inspection report. You must contact the carrier within 48 hours of receiving the machine. Also, contact the dealer through which you purchased the unit.

UNPACKING THE DISHMACHINE: The machine should be unboxed and removed from shipping pallet prior to being installed. Open the front door and remove all of the packing materials. Once unpacked, ensure that there are no missing parts from the machine. This may not be obvious at first. If it is discovered that an item is missing, contact Jackson immediately.

LEVEL THE DISHMACHINE: The dishmachine is designed to operate while being level. This is important to prevent any damage to the machine during operation and to ensure the best results when washing ware. The unit comes with adjustable bullet feet, which can be turned using a pair of channel locks or by hand if the unit can be raised safely. Ensure that the unit is level from side to side and from front to back before making any connections. You will be able to adjust the overall height of the unit by turning the bullet feet from between 75-1/2" to 76-1/2".



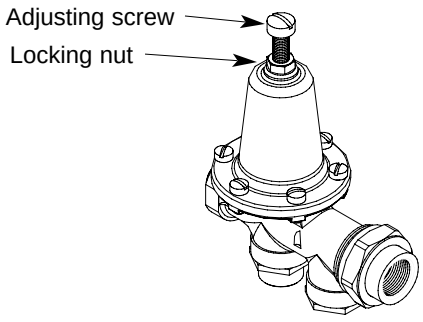
Frame with Adjustable Foot

PLUMBING THE DISHMACHINE: All plumbing connections must comply with all applicable local, state, and national plumbing codes. The plumber is responsible for ensuring that the incoming water line is thoroughly flushed prior to connecting it to any component of the dishmachine. It is necessary to remove all foreign debris from the water line that may potentially get trapped in the valves or cause an obstruction. Any valves that are fouled as a result of foreign matter left in the water line, and any expenses resulting from this fouling, are not the responsibility of the manufacturer.

Water hardness should be a maximum of 6 grains per gallon. Harder water should be treated prior to using the machine. Iron in the water supply can cause staining. A filter designed to remove iron from the supply water is highly recommended for supplies in excess of 0.1 ppm (parts per million).

CONNECTING THE DRAIN LINE: The drain for the models covered in this manual are gravity discharge drains. All piping from the machine to the drain must be a minimum 1 1/2" NPT and should not be reduced. There must also be an air gap between the machine drain line and the floor sink or drain. If a grease trap is required by code, it should have a flow capacity of 30 gallons per minute.

WATER SUPPLY CONNECTION: Ensure that you have read the section entitled "PLUMBING THE DISHMACHINE" above before proceeding. The supply water temperature must meet the minimum requirements listed on the machine data plate. Install the water supply line (3/4" pipe size minimum) to the dishmachine line strainer. It is recommended that a water shut-off valve be installed in the water line between the main supply and the machine to allow access for service. The water supply line is to be capable of 25 PSI "flow" pressure at the recommended temperature indicated on the data plate.



Incoming Plumbing Connection

If the water level is too low or too high, check the incoming water pressure. It should be 20 ± 5 PSI. Too high of pressure results in too much water; too low of pressure results in too little water. To adust the regulator, loosen the nut at the top, this will allow you to screw or unscrew the adjustment. With a screwdriver, turn the adjuster clockwise to increase pressure or counter clockwise to decrease it.

Do not confuse static pressure with flow pressure. Static pressure is the line pressure in a "no flow" condition (all valves and services are closed). Flow pressure is the pressure in the fill line when the fill valve is opened during the cycle.

It is also recommended that a shock absorber (not supplied) be installed in the incoming water line. This prevents line hammer (hydraulic shock), induced by the solenoid valve as it operates, from causing damage to the equipment.

STEAM LINE CONNECTIONS: Some machines covered in this manual are designed to use low pressure steam as a source of heat for wash tank water. The machines come with lines by which outside source steam needs to be connected. Connect all incoming steam lines in accordance with the steam booster manufacturer's instructions. Ensure that all applicable codes and regulations are adhered to. See machine data plate for information concerning steam flow pressure.

GAS CONNECTIONS: Some machines covered in this manual are designed to use gas as an outside source of heat for wash tank water. The machines come with connections by which an outside source needs to be connected. Connect all incoming gas lines in accordance with the gas booster manufacturer's instructions. Ensure that all applicable codes and regulations are adhered to.

PLUMBING CHECK: Slowly turn on the water supply to the machine after the incoming fill line and the drain line have been installed. Check for any leaks and repair as required. All leaks must be repaired prior to placing the machine in operation.

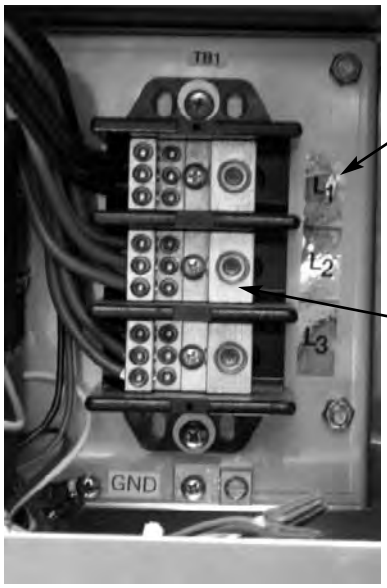
ELECTRICAL POWER CONNECTION: Electrical and grounding connections must comply with the applicable portions of the National Electrical Code ANSI/NFPA 70 (latest edition) and/or other electrical codes.

Disconnect electrical power supply and place a tag at the disconnect switch to indicate that you are working on the circuit.

The dishmachine data plate is located on the right side and to the front of the machine. Refer to the data plate for machine operating requirements, machine voltage, total amperage load and serial number.

To install the incoming power lines, open the control box. Install conduit into the pre-punched holes in the back of the control box. Route power wires and connect to power block and grounding lug. Install the service wires (L1, L2, and L3 (3 phase only)) to the appropriate terminals as they are marked on the terminal block. Install the grounding wire into the lug provided. Tighten the connections. It is recommended that "DE-OX" or another similar anti-oxidation agent be used on all power connections.

VOLTAGE CHECK: Ensure that the power switch is in the OFF position and apply power to the dishmachine. Check the incoming power at the terminal block and ensure it corresponds to the voltage listed on the data plate. If not, contact a qualified service agency to examine the problem. Do not run the dishmachine if the voltage is too high or too low. Shut off the service breaker and mark it as being for the dishmachine. Advise all proper personnel of any problems and of the location of the service breaker. Replace the control box cover and tighten down the screws.



Incoming Power Connection

VENTILATION OF DISHMACHINE: The dishmachine should be located with provisions for venting into an adequate exhaust hood or ventilation system. This is essential to permit efficient removal of the condensation exhaust. Ensure that the exhaust system is acceptable in accordance with all applicable codes and standards.

NOTE: Any damage that is caused by steam or moisture due to improper ventilation is NOT covered under the warranty.

This units covered in this manual have the following exhaust requirements:

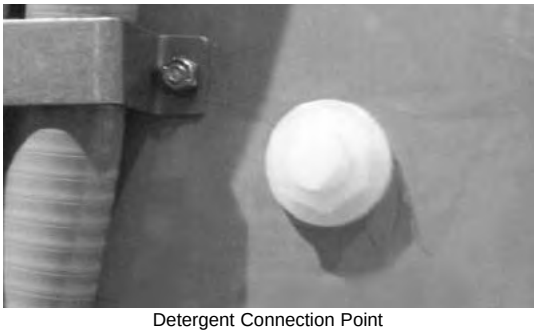
Load End:	200 CFM
Unload End:	400 CFM

The exhaust system must be sized to handle this volume for the dishmachine to operate as it was designed to.

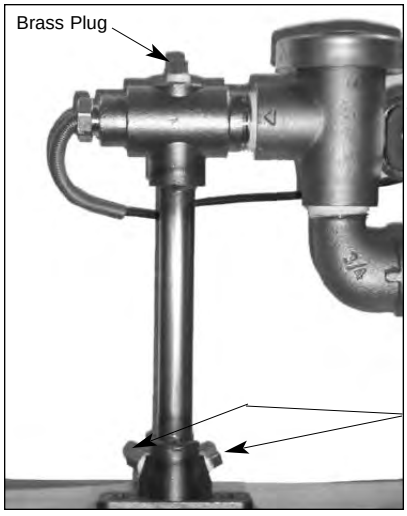
ELECTRIC HEAT: The thermostats for the machines covered in this manual are factory set. They should not be adjusted except by an authorized service agent.

CHEMICAL FEEDER EQUIPMENT: Detergent may be introduced into the unit through the removal of the bulkhead plug in the rear of the tub and replacing it with the third party detergent injection fitting. Remove the bulkhead plug in the side of the tub to install the detergent concentration probe.

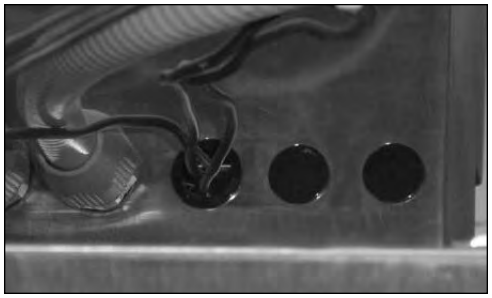
For more information concerning detergent concerns, please refer to the page entitled “Detergent Control”.



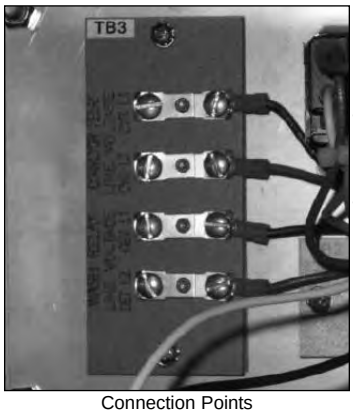
Detergent Connection Point
(Machine rear view)



The 1/8” brass plugs on the incoming plumbing rinse injector may be removed to install rinse aid injection fittings.



All wires for the chemical injectors should be routed through one of the extra openings in the back of the control box.



Connection Points

Terminals in the control box marked “CVS” provide a constant voltage signal whenever the drive motor is operating.

Terminals in the control box marked “DET” provide a voltage signal whenever the wash motor is operating.